



# Intuity™ Messaging Solutions

Getting Connected



585-313-703  
Comcode 108881897  
Issue 2  
November 2000



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### **Notice**

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Avaya Inc. formed as a result of Lucent's planned restructuring, design builds and delivers voice, converged voice and data, customer relationship management, messaging, multi-service networking and structured cabling products and services. Avaya Labs is the research and development arm for the company.

### **Preventing Toll Fraud**

"Toll fraud" is the unauthorized use of your telecommunications system by an unauthorized party (for example, a person who is not a corporate employee, agent, subcontractor, or working on your company's behalf). Be aware that there may be a risk of toll fraud associated with your system and

that, if toll fraud occurs, it can result in substantial additional charges for your telecommunications services.

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If you suspect *that you are being victimized* by toll fraud and you need technical assistance or support, call the Technical Service Center's Toll Fraud Intervention Hotline at 1-800-643-2353.

### **Providing Telecommunications Security**

Telecommunications security (of voice, data, and/or video communications) is the prevention of any type of intrusion to (that is, either unauthorized or malicious access to or use of your company's telecommunications equipment) by some party.

Your company's "telecommunications equipment" includes both this Avaya product and any other voice/data/video equipment that could be accessed via this Avaya product (that is, "networked equipment").

An "outside party" is anyone who is not a corporate employee, agent, subcontractor, or working on your company's behalf. Whereas, a "malicious party" is anyone (including someone who may be otherwise authorized) who accesses your telecommunications equipment with either malicious or mischievous intent.

Such intrusions may be either to/through synchronous (time-multiplexed and/or circuit-based) or asynchronous (character-,

message-, or packet-based) equipment or interfaces for reasons of:

- Utilization (of capabilities special to the accessed equipment)
- Theft (such as, of intellectual property, financial assets, or toll-facility access)

- Eavesdropping (privacy invasions to humans)
- Mischief (troubling, but apparently innocuous, tampering)
- Harm (such as harmful tampering, data loss or alteration, regardless of motive or intent)

Be aware that there may be a risk of unauthorized intrusions associated with your system and/or its networked equipment. Also realize that, if such an intrusion should occur, it could result in losses to your company (including but not limited to, human/data privacy, intellectual property, material assets, financial resources, labor costs, and/or legal costs).

### **Your Responsibility for Your Company's Telecommunications Security**

The final responsibility for securing both this system and its networked equipment rests with you – a Avaya customer's system administrator, your telecommunications peers, and your managers. Base the fulfillment of your responsibility on acquired knowledge and resources from a variety of sources including but not limited to:

- Installation documents
- System administration documents
- Security documents
- Hardware-/software-based security tools
- Shared information between you and your peers
- Telecommunications security experts

To prevent intrusions to your telecommunications equipment, you and your peers should carefully program and configure your:

- Avaya-provided telecommunications systems and their interfaces
- Avaya-provided software applications, as well as their underlying hardware/software platforms and interfaces
- Any other equipment networked to your Avaya products.

Avaya Inc. does not warrant that this product or any of its networked equipment is either immune from or will prevent either unauthorized or malicious intrusions. Avaya Inc. will not be responsible for any charges, losses, or damages that result from such intrusions.

### **Federal Communications Commission Statement**

**Part 15: Class A Statement.** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio-frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his/her own expense.

**Part 68: Network Registration Number.** This equipment is registered with the FCC in accordance with Part 68 of the FCC Rules. It is identified by FCC registration number AS593M-13283-MF-E. Refer to "Federal Communications Commission Statement" in "About This Book" for more information regarding Part 68.

## **Canadian Department of Communications (DOC) Interference Information**

This digital apparatus does not exceed the Class A limits for radio noise emissions set out in the radio interference regulations of the Canadian Department of Communications.

Le Présent Appareil Numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la class A prescrites dans le règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

## **Ordering Information**

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317-361-5353  
Fax 1-800-457-1764 International Fax 317-361-5355

**Write:** Avaya Publications Center  
2855 North Franklin Road  
Indianapolis, IN 46219

**Order:** Document No. 585-310-748  
Comcode 108671405  
Issue 2, January 2001

For additional documents, refer to the section in "About This Book" entitled "Related Documents."

You can be placed on a standing order list for this and other documents you may need. Standing order will enable you to automatically receive updated versions of individual documents or document sets, billed to account information that you provide. For more information on standing orders, or to be put on a list to receive future issues of this document, contact the Avaya Publications Center.

## **European Union Declaration of Conformity**

The "CE" mark affixed to the DEFINITY ONE equipment described in this book indicates that the equipment conforms to the following European Union (EU) Directives:

- Electromagnetic Compatibility (89/336/EEC)
- Low Voltage (73/23/EEC)
- Telecommunications Terminal Equipment (TTE) i-CTR3 BRI and i-CTR4 PRI



The "CE" mark affixed to the equipment means that it conforms to the above directives.

For more information on standards compliance, contact your local distributor.

## **Comments**

Please send an email message to [infodev@avaya.com](mailto:infodev@avaya.com) with your comments about this document.



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# Overview



# Overview

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*Intuity Messaging Solutions Release 5.1 Getting Connected*, 585-313-703, provides illustrations to help you make connections from the Avaya Intuity system to the following:

- Switches, including DEFINITY, MERLIN LEGEND, System 25, System 75, System 85, digital station interface, inband, and serial switches
- Networks
- Terminals and distant modems

See the Intuity Messaging Solutions Release 5.1 documentation CD-ROM for more information on cable connectivity, circuit cards, and networking. The documentation CD-ROM also includes cable ordering numbers and cable lengths.



## **Connecting Cables from the Platform to the Switch**





# Connecting Cables from the Platform to the Switch

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To begin switch connections from the platform, you must connect to the DCIU circuit card or the digital station interface circuit card. Verify the slot position of the circuit card.

## Using an IDI or MPDM for Switch Connections

Connections on the platform to the switch must be made through either an isolating data interface (IDI) or a modular processor data module (MPDM). Direct connections to the switch are not supported.

An IDI functions as a ground device (RS-449). The cable is RS-232 on one end for connection to the DCIU circuit card and RS-449 on the other end for connection to the IDI.

# Notes


The MPDM provides a digital port connection to the switch from the DCIU circuit card. You must use an MPDM in the following situations:

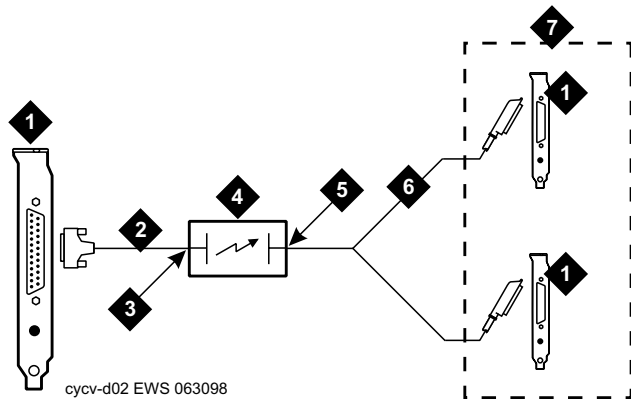
- The distance of the connection from the platform to the switch is greater than 400 feet (122 meters).
- The switch to which you are connecting has duplicated common control.
- The switch has DC power.

The last two items *do not* apply to DEFINITY G3r or G2 and System 85 R2V4.

# Notes


## Connecting Avaya Intuity to G2 and System 85 R2V4 Using Duplicated Common Control Through an IDI

- 1 DCIU circuit card
- 2 ED1E43411 – Grp 175 cable
- 3 *Adjunct* RS-449 connector
- 4 IDI
- 5 *Switch* RS-449 connector
- 6 ED1E43411 – Grp 342 cable
- 7 G2 and System 85

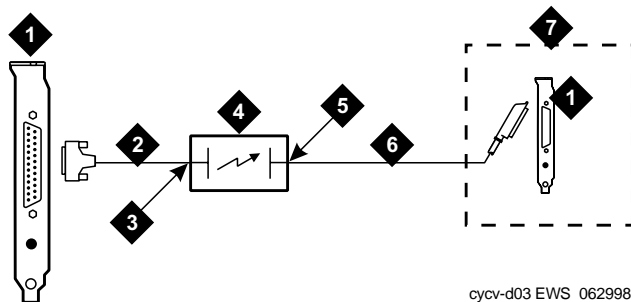


You must also attach a Grp 304 cable to the Grp 342 cable if the connection is more than 7 feet (2.1 meters) away. This is not shown in the figure. The Grp 304 cable is 400 feet (122 meters) in length.

# Notes


# Connecting Avaya Intuity to G2 and System 85 R2V4 Through an IDI

- 1 DCIU circuit card
- 2 ED1E43411 – Grp 175 cable
- 3 *Adjunct* RS-449 connector
- 4 IDI
- 5 *Switch* RS-449 connector
- 6 ED1E43411 – Grp 304 cable
- 7 G2 and System 85



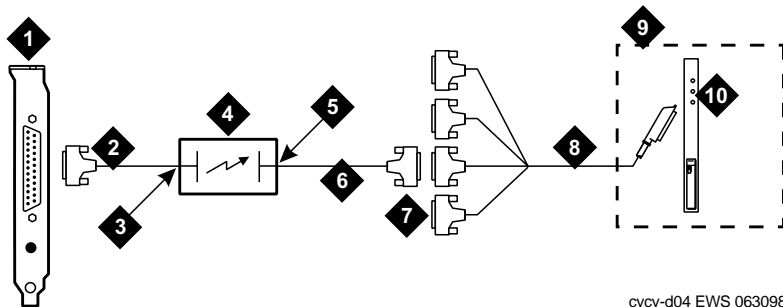
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# Notes




# Connecting the Avaya Intuity to G3r Through an IDI

- 1 DCIU circuit card
- 2 ED1E43411 – Grp 175 cable
- 3 *Adjunct* RS-449 connector
- 4 IDI
- 5 *Switch* RS-449 connector
- 6 H600-210 – Grp n cable
- 7 RS-232 connector
- 8 H600-347 cable
- 9 G3r
- 10 TN577 packet gateway

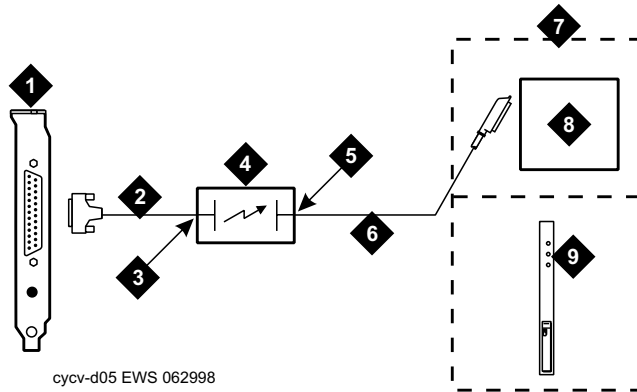


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# Notes


## Connecting the Avaya Intuity to Most Switches Through an IDI – G3r, G2, and System 85 Excluded

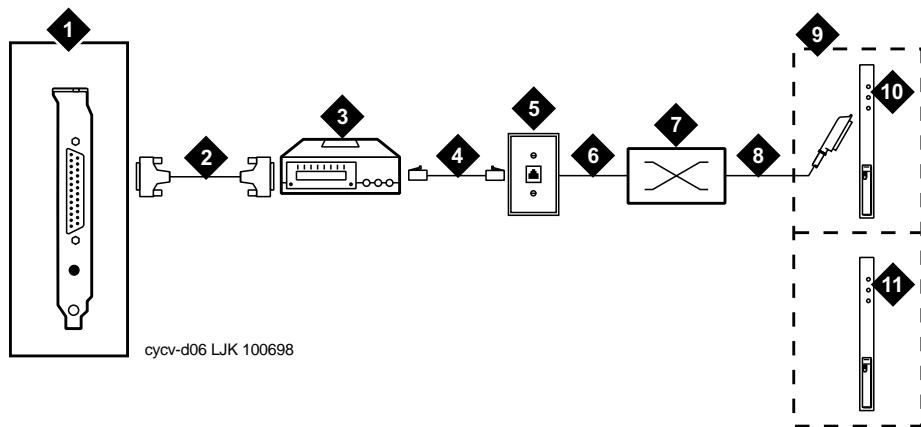
- 1 DCIU circuit card
- 2 ED1E43411 – Grp 175 cable
- 3 *Adjunct* RS-449 connector
- 4 IDI
- 5 *Switch* RS-449 connector
- 6 H600-210 – Grp *n* cable
- 7 Most switches except G3r, G2, and System 85
- 8 EIA connector on the processor interface
- 9 TN765 processor interface



# Notes


## Connecting the Avaya Intuity to Most Avaya Switches Through an MPDM — G3r, G2, and System 85 Excluded

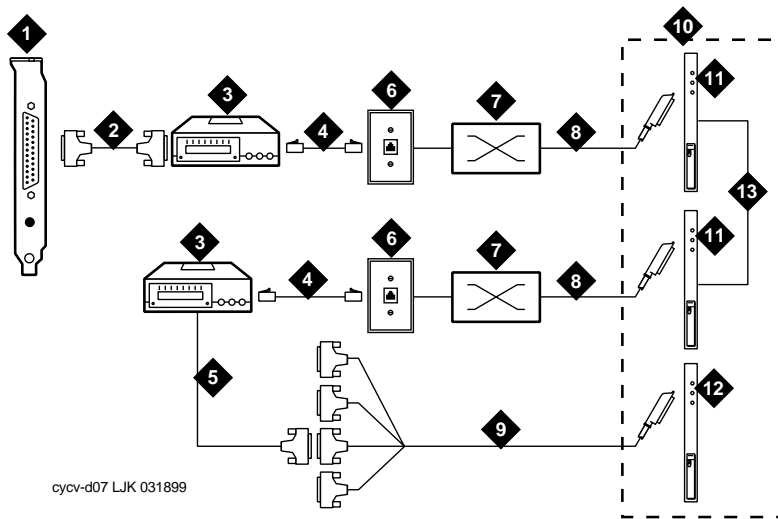
- 1 DCIU circuit card
- 2 RS-232 cable
- 3 MPDM
- 4 D8W-87 (4-pair) modular cord
- 5 House wiring
- 6 3-pair cord
- 7 Cross connect field
- 8 25-pair I/O cable
- 9 Most switches except G3r, G2, and System 85
- 10 TN754 digital line interface
- 11 TN765 processor interface



[illegible]

## Connecting the Avaya Intuity to the G3r Through MPDMs

- 1 DCIU circuit card
- 2 RS-232 cable
- 3 MPDM
- 4 D8W-87 modular cord
- 5 Group 110 cable
- 6 103A adapter
- 7 Cross-connect field
- 8 25-pair I/O cable
- 9 H600-347 – Grp 1 cable
- 10 G3r only
- 11 TN754 digital line interface
- 12 TN577 packet gateway
- 13 Administered connection

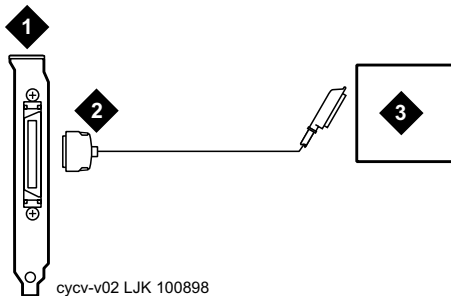


# Notes




## Making a Direct Connection from the Digital Station Interface Circuit Card to Customer Premise Equipment

- 1 Digital station interface circuit card
- 2 50-pin connector
- 3 Customer premise equipment

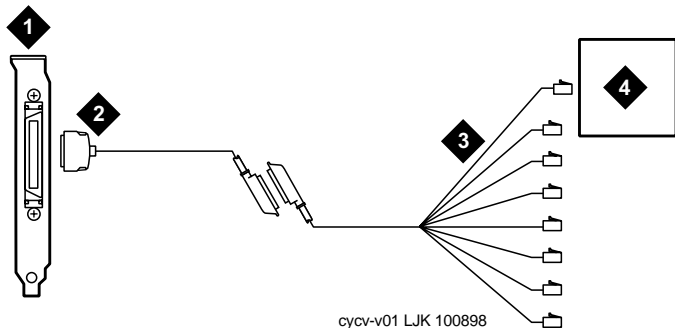


If customers use ROLM or Northern Telecom equipment, their station jacks are RJ-11, not RJ-45. You must use in-line adapters to convert the RJ-11 to RJ-45 to connect their equipment.

# Notes


## Connecting the Digital Station Interface Circuit Card to Customer Premise Equipment

- 1 Digital station interface circuit card
- 2 50-pin connector
- 3 Octopus cable 3-feet (1-meter)
- 4 Customer premise equipment



If you do not need to use the octopus cable, connect the end of the connector cable directly to the customer premise equipment. See “Making a Direct Connection from the Digital Interface Circuit Card to Customer Premise Equipment” for a figure of a direct connection.

If customers use ROLM or Northern Telecom equipment, their station jacks are RJ-11, not RJ-45. You

# Notes


# **Connecting the Lucent Intuity System to the Network**



# Connecting the Avaya Intuity System to the Network

---

The Avaya Intuity can be connected to the network through one of two methods:

- From an ACCX circuit card in the Avaya Intuity through digital and/or analog remote connections using DCP and/or RS-232 lines, respectively.
- From a standard 10/100MB network LAN card in the Avaya Intuity to a TN799 circuit card on the DEFINITY switch using TCP/IP

The network LAN card can be connected to a TN799 in the switch directly using a crossover cable, indirectly through a hub to the LAN, or indirectly as a node on the customer's LAN.

Each ACCX circuit card terminates four data channels in one of the following combinations:

- Two DCP lines, each providing two I-channels. Depending on the version of the switch you are connecting to, you may only be able to use one of the two I-channels of each DCP circuit.

# Notes




- System 75 R1V3, DEFINITY G1 R1V4, and DEFINITY G3i, G3s, or G3vs Version 1 only support one I-channel.
  - DEFINITY G2, G3, G3i, G3s, G3vs Version 2, and System 85 can use both I-channels. The option must be purchased, installed, and administered on the switch before Avaya Intuity system administration is performed.
- Four RS-232 ports
  - One DCP line (two I-channels) and two RS-232 ports

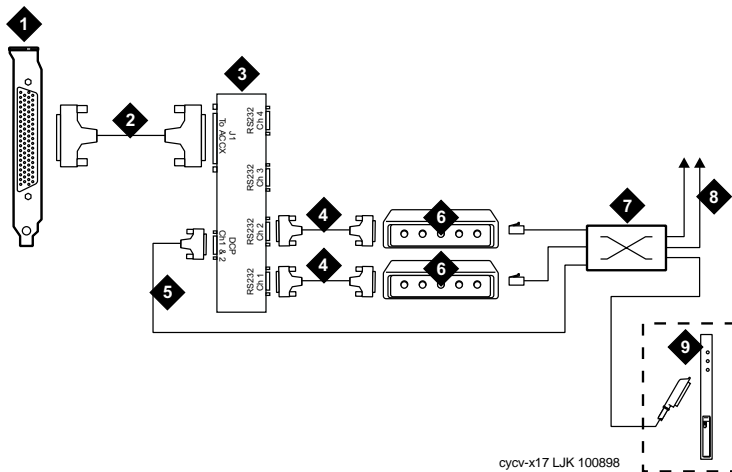
Each ACCX circuit card includes a 10-foot (3-meter) cable and a breakout box for RS-232 or DCP connections. The ACCX circuit card is located in varying places depending on the platform. Verify the location of the ACCX circuit card.

See the Intuity Messaging Solutions Release 5.1 documentation CD-ROM for more information on the LAN connections, RS-232 and DCP cable pinouts, breakout boxes, and how to install the circuit cards.

# Notes


# Connecting the Avaya Intuity to the Network Through Two RS-232 Lines and One DCP Line

- 1 ACCX circuit card
- 2 78-pin cable
- 3 124A breakout box
- 4 RS-232 cable
- 5 ED5P208 – Grp 30 cable
- 6 Modem
- 7 Cross-connect field
- 8 Analog lines
- 9 TN754 or SN270B interface

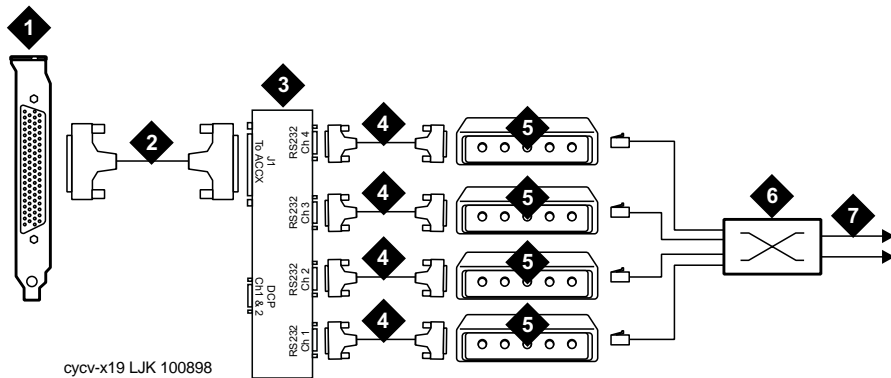


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# Notes


## Connecting the Avaya Intuity to the Network Through Four RS-232 Cables

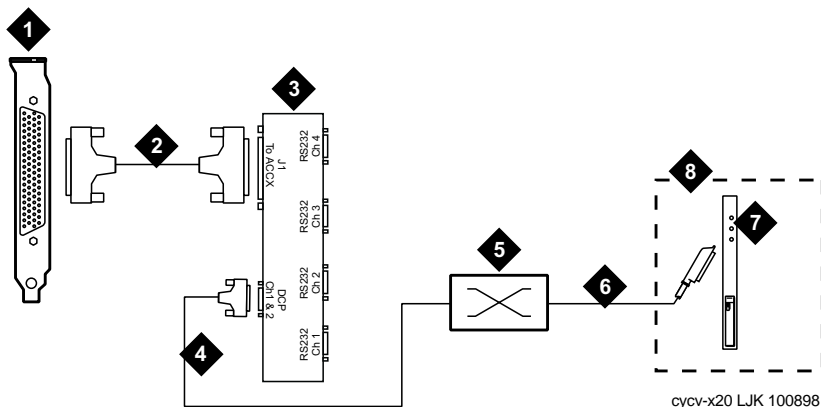
- 1 ACCX circuit card
- 2 78-pin cable
- 3 124A breakout box
- 4 RS-232 cable
- 5 Modem
- 6 Cross-connect field
- 7 Analog lines



# Notes


# Connecting the Avaya Intuity to the Network Through Two DCP Lines

- 1 ACCX circuit card
- 2 78-pin cable
- 3 124A breakout box
- 4 ED5P208 – Grp 30 cable
- 5 Cross-connect field
- 6 25-pair I/O cable
- 7 Digital line interface (TN754 or SN270B)
- 8 DEFINITY switch

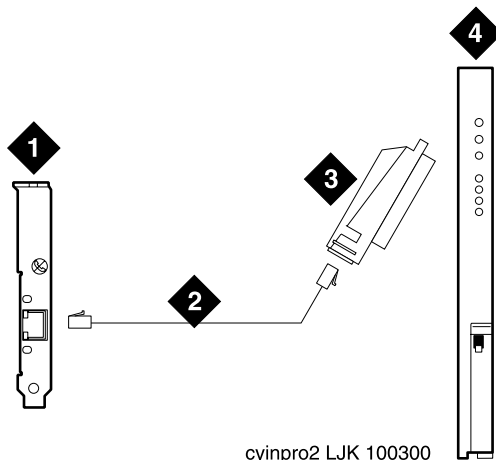


# Notes




## Connecting the Avaya Intuity Directly Using a Crossover Cable

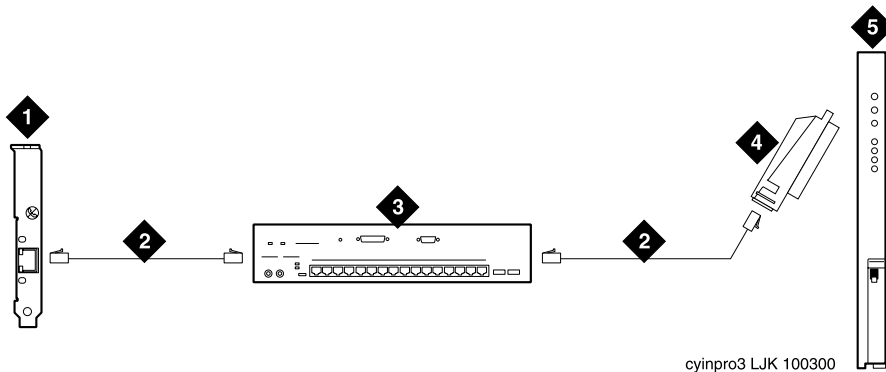
- 1 10/100 Mb LAN circuit card
- 2 Crossover cable
- 3 259A adapter
- 4 TN799 circuit card in DEFINITY switch



# Notes


## Connecting the Avaya Intuity through an Ethernet Hub

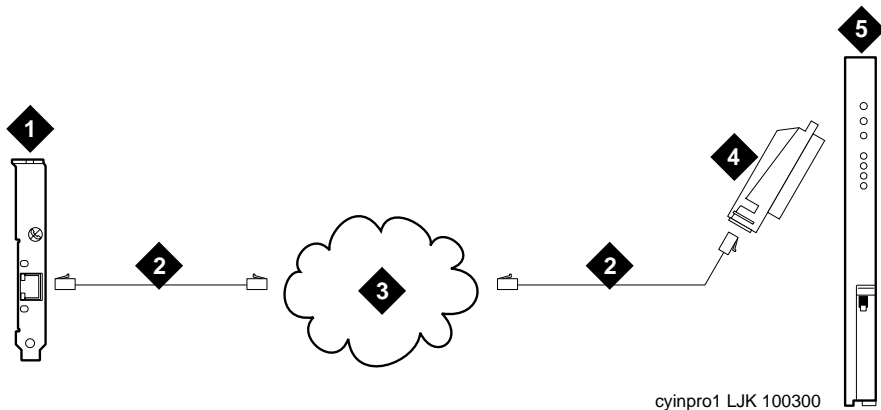
- 1 10/100 MB LAN network card
- 2 LAN cable
- 3 Dedicated Ethernet hub
- 4 259A adapter
- 5 TN799 circuit card in DEFINITY switch



# Notes


## Connecting the Avaya Intuity to the Customer's LAN

- 1 10/100 MB LAN network card
- 2 LAN cable
- 3 Existing customer LAN
- 4 259A adapter
- 5 TN799 circuit card in DEFINITY switch



# Notes


# **Connecting the Lucent Intuity to Terminals and Distant Modems**





# Connecting the Avaya Intuity to Terminals and Distant Modems

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Serial port connections from the Avaya Intuity system to terminals, distant modems, or other customer premise equipment can be made either from COM1 (serial port 1) on the back of the platform or from the serial interface circuit card.

If there is only one serial connection to make, use COM1 (serial port 1). Use the serial interface circuit card for the first eight connections and then use COM1, if necessary.

For MERLIN LEGEND integrations without automatic Alarm Origination, COM2 is available. COM1 is reserved for the System Programming and Maintenance Utility (SPM), a utility that allows you to administer the MERLIN LEGEND from the Avaya Intuity system.

# Notes


For the System 25 integrations, COM1 is reserved for the Call Accounting System (CAS), if CAS is installed. System 25 Administration (AAS) and the remote maintenance modem share COM2 through a switch box. Use a serial interface circuit card for additional devices on the System 25.

COM2 is reserved for remote support on systems using alarm origination. COM 2 may not be used for the Property Management System (PMS) link.

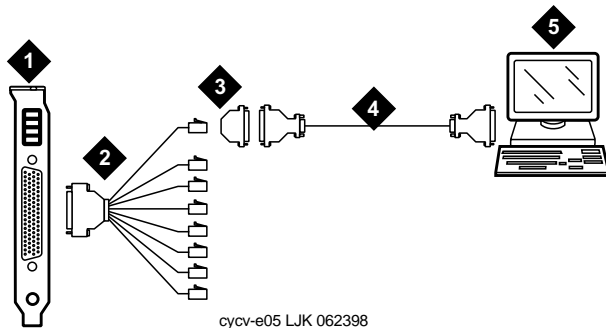
See the Intuity Messaging Solutions Release 5.1 documentation CD-ROM for more information on serial interface circuit card connections.

# Notes

[illegible]

## Making a Direct Connection from the Serial Interface Circuit Card to a 615 Terminal or Other DTE Devices

- 1 Serial interface circuit card
- 2 Octopus cable
- 3 DTE adapter
- 4 Null modem cable
- 5 615 terminal or other DTE device

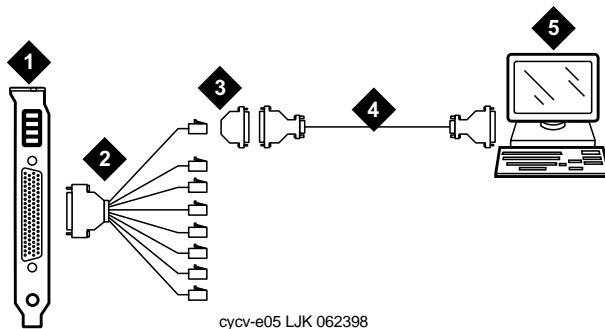


A null modem cable must be available on site. If you need a null modem cable, you can purchase one from Avaya.

# Notes


## Making a Direct Connection from the Serial Interface Circuit Card to a 715 Terminal or Other DCE Devices

- 1 Serial interface circuit card
- 2 Octopus cable
- 3 DCE adapter
- 4 RS-232 cable
- 5 715 terminal or other DCE device

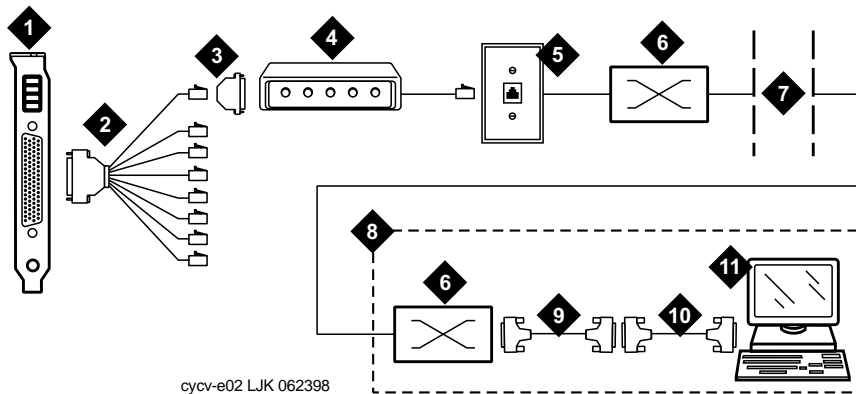


# Notes




# Connecting the Serial Interface Circuit Card to Customer Premise Equipment Through a Modem

- 1 Serial interface circuit card
- 2 Octopus cable
- 3 25-pin modular adapter
- 4 Modem
- 5 House wiring
- 6 Cross-connect field
- 7 Public switched network
- 8 Remote location
- 9 M8AJ-87 cable
- 10 DB-95 to DB-25P adapter
- 11 Customer premise equipment

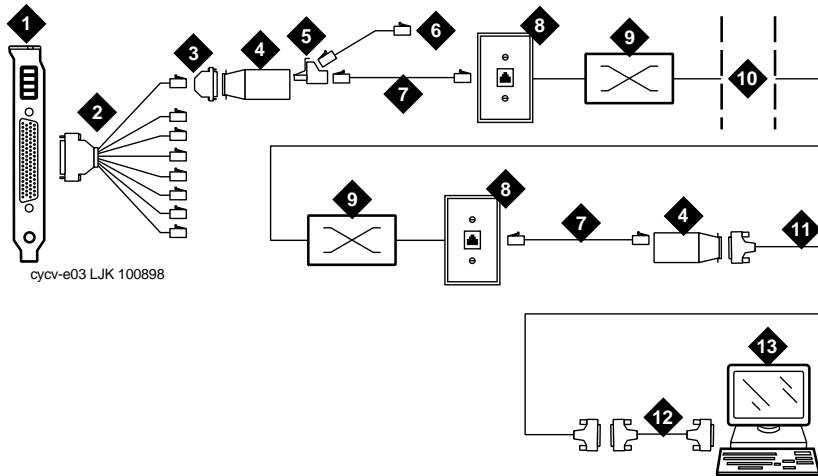


# Notes

A full page of blank graph paper with a uniform grid of small squares. The grid consists of 20 columns and 12 rows, creating a total of 240 square units. The lines are thin and gray, set against a white background. There are no margins or additional markings on the page.

# Connecting the Serial Interface Circuit Card to a 715 Terminal Through an ADU

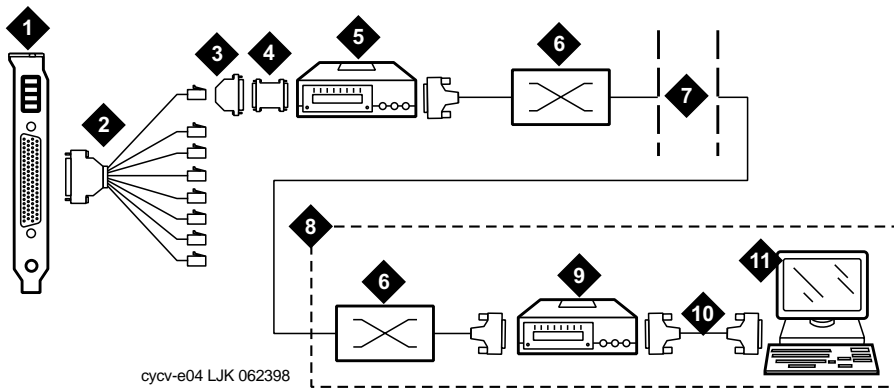
- 1 Serial interface circuit card
- 2 Octopus cable
- 3 25-pin modular adapter
- 4 ADU
- 5 400B2 adapter
- 6 To power source
- 7 Modular cord
- 8 House wiring
- 9 Cross-connect field
- 10 Public switched telephone network
- 11 M8AJ-87 cable
- 12 DB-95 to DB-25P adapter
- 13 715 terminal or other DCE device



# Notes


# Connecting the Serial Interface Circuit Card to a Distant Data Module Through a 7400A Data Module

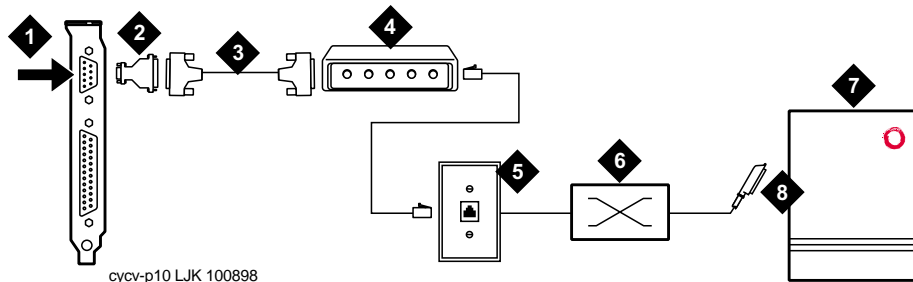
- 1 Serial interface circuit card
- 2 Octopus cable
- 3 25-pin modular adapter
- 4 DTE adapter
- 5 7400A data module
- 6 Cross-connect field
- 7 Public switched network
- 8 Remote location
- 9 7400B distant data module
- 10 Null modem
- 11 Terminal



# Notes


## Connecting COM1 to Customer Premise Equipment Through a Modem

- 1 COM1 (either on CPU or back of platform)
- 2 9-pin to 25-pin adapter
- 3 RS-232 cable
- 4 Modem
- 5 House wiring
- 6 Cross-connect field
- 7 Switch
- 8 25-pair cable



This figure shows COM1 on the CPU circuit card. This configuration applies to MAP/40P and MAP/100P systems only. On MAP/5P systems, COM1 is on the back of the chassis, not on the CPU circuit card.

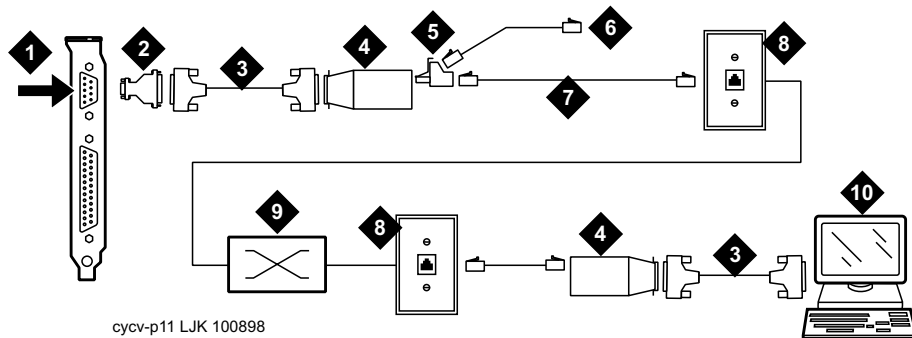
# Notes

A blank sheet of graph paper featuring a uniform grid of small squares. The grid consists of 20 columns and 12 rows, creating a total of 240 square units. The lines are thin and black, set against a white background. There are no margins, text, or other markings on the page.



## Connecting COM1 to a 715 Terminal Through ADUs

- 1 COM1 (either on CPU or back of platform)
- 2 9-pin to 25-pin adapter
- 3 RS-232 cable
- 4 ADU
- 5 400B2 adapter
- 6 To adjunct power 1151A
- 7 DW8 cable
- 8 House wiring
- 9 Cross-connect field
- 10 715 terminal or other DCE device

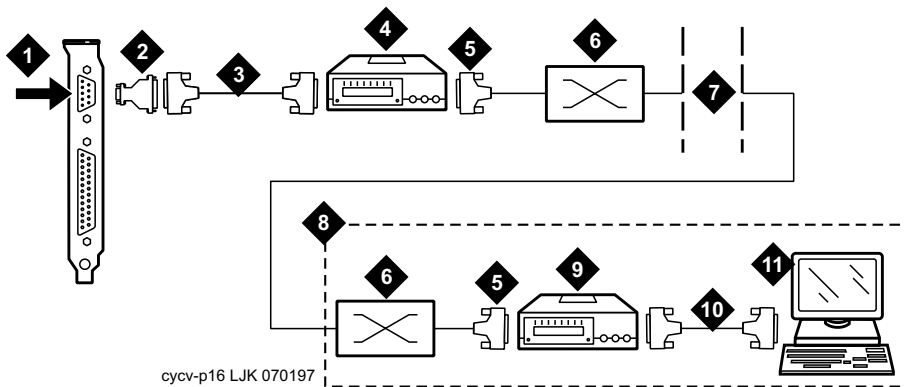


This figure shows COM1 on the CPU circuit card. This configuration applies to MAP/40P and MAP/100P systems only. On MAP/5P systems, COM1 is on the back of the chassis, not on the CPU circuit card.

# Notes


## Connecting COM1 to a Distant Data Module Through a 7400A Data Module

- 1 COM1 (either on CPU or back of platform)
- 2 9-pin to 25-pin adapter
- 3 RS-232 cable
- 4 7400A data module
- 5 25-pin cable
- 6 Customer wall field
- 7 Public switched telephone network
- 8 Remote location
- 9 7400B distant data module
- 10 RS-232 cable

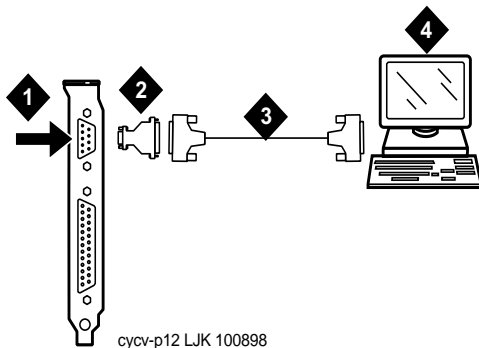


This figure shows COM1 on the CPU circuit card. This configuration applies to MAP/40P and MAP/100P systems only. On MAP/5P systems, COM1 is on the back of the chassis, not on the CPU circuit card.

# Notes


## Connecting COM1 to a 615 Terminal or Other DTE Device Through a Null Modem

- 1 COM1 (either on CPU or back of platform)
- 2 9-pin to 25-pin adapter
- 3 Null modem cable
- 4 615 terminal or other DTE device



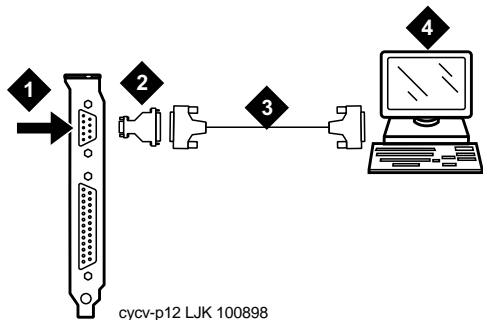
This figure shows COM1 on the CPU circuit card. This configuration applies to MAP/40P and MAP/100P systems only. On MAP/5P systems, COM1 is on the back of the chassis, not on the CPU circuit card.

A null modem must be available on site. If needed, it can be purchased from Avaya.

# Notes


## Connecting COM1 to a 715 Terminal or Other DCE Device

- 1 COM1 (either on CPU or back of platform)
- 2 9-pin to 25-pin adapter
- 3 RS-232 cable
- 4 715 terminal or other DCE device



This figure shows COM1 on the CPU circuit card. This configuration applies to MAP/40P and MAP/100P systems only. On MAP/5P systems, COM1 is on the back of the chassis, not on the CPU circuit card.

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