



# TDS Series Enterprise Class Hybrid IP Communication System

A High Performance  
Communication System for Midsize  
to Large Enterprises

40 TO 1280 PORTS



• Love • Trust • Innovation  
• Passion • Integrity • Self-discipline



## *Support Enterprises in Reaching Their Goals*

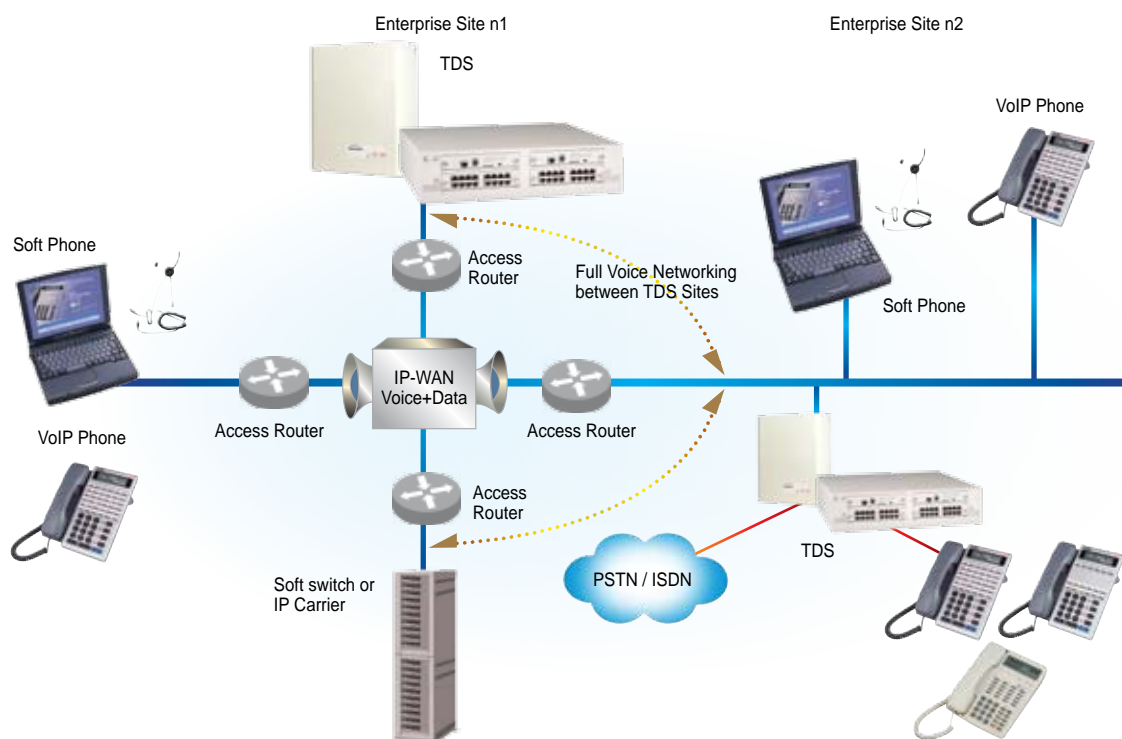
Today's large enterprises need reliable, flexible, remotely accessible, easy to manage voice communication solutions. The TDS Enterprise Class Communication System is exactly the answer.

The TDS Enterprise Class Communication System is an integrated, interactive solution for medium-sized businesses, large corporations, chained hotels and hospitals. This highly scalable solution combines traditional telephony with support for IP enabled communication to provide an effective and complete communications solution for cost conscious companies on the cutting edge.



## Benefits

- High scalability, with support for up to 1,280 ports
- Protection of existing investments through easy upgrades of existing TDS systems
- Easy to manage, deploy and maintain
- Protects investment for large and medium sized companies
- Provides medium sized companies with the same advanced features as larger companies, without needing dedicated, high level technical resources and staff
- Redundant power supplies in the central common control maintains system operation should one power unit fail (optional)
- Boosts employee productivity and customer interaction by delivering full services to all staff members at all locations
- Networking systems together means direct station to station dialing, improving productivity and reducing toll costs





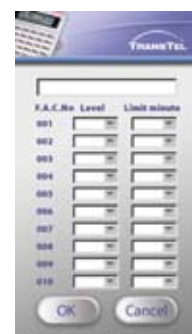
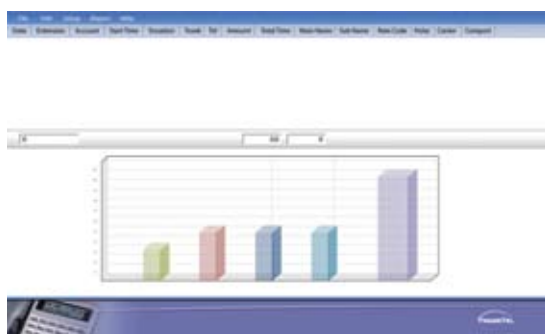
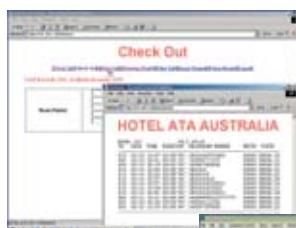


## The Economic Impact

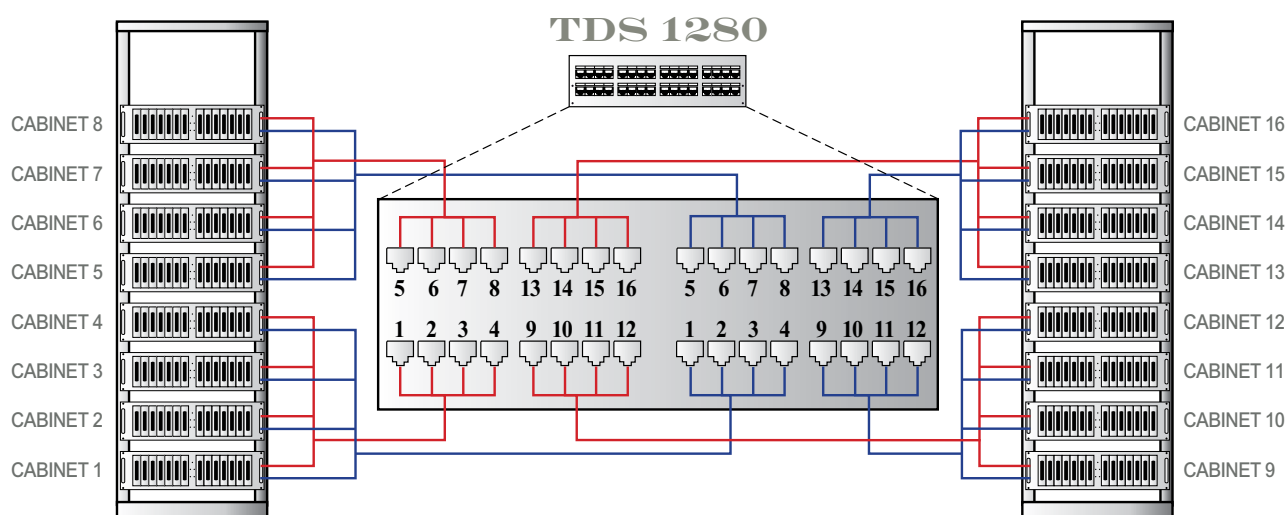
### IP Based Computer Telephony Integration

Telephone system enhancements and upgrades should not mean throwing away existing equipment. With the TDS 1280 Series, you decide the pace of your migration .....department by department and branch office by branch office. Or you can take the advantage of IP deployment across the entire organization.

With IP connectivity, users can retrieve their Voice Messages from their own desk or wherever they are. Check your colleague's attendance status and his or her absent message, leaving and reviewing your messages, monitoring company call traffic and total call cost on line.



# ***TDS-1280 Architecture***



## **Compelling Cost Benefit**

SIP trunking offers enterprises many advantages – higher quality of service, more comprehensive features and true convergence of voice and data in the telephone network. The open standard makes communication solutions more flexible and accelerates business processes.



**TDS 1280 Main Controller**

# Key Features & Highlights....

## TDS Series Enterprise Class Communication System

**Leverage VoIP Technology to boost productivity and enhance communications**

### **Networking & SIP Trunking**

Connect multiple systems together and offer your enterprise direct station to station dialing. Transfer calls from one enterprise to another and across time zones. Avoid costly toll charges by utilizing SIP based trunking on your private network or via IP carrier grade services.

### **IP Telephony & the Teleworker**

Your enterprise may consist of smaller operations that do not justify having a complete telephone system. Or you may have field sales personnel working from a small office. You may include these situations just like others in the enterprise by incorporating the TransTel IP38-61 telephone set. These IP sets will look back to the host system and auto configure themselves to appear like they are running just like a phone on the main system. Outside line appearances, DSS keys and speed dial buttons are all available to each station user as well as voice mail.

### **Laptops & Soft Phones to Connect Back to the Main Office**

Traveling and staying connected to the enterprise has never been easier than with Soft Phones. From a WiFi hot spot you may open a client on your laptop which will link to the host system and provide telecommunications services to others within the enterprise.

### **ISDN Connectivity (BRI and PRI)**

ISDN has been proven as the way of the future for many office applications and can give real benefits to your business:

- Sound quality improved through digital voice transmission.
- Multimedia access using voice and data transmission.

ISDN will also provide you with additional benefits:

- MSN (Multiple Subscriber Number) or DID (Direct Inward Dial)- allowing incoming callers direct access to extensions, without going through the switchboard.
- Caller ID (Calling Line Identification) - allowing you to identify the originating number of incoming calls from the ISDN network.
- AOC (Advice of Charge) - at the end of each call, your phone display will show the exact call cost (subject to network provider).

### **DIA (Direct Internet Access) capability**

The TDS built-in LAN Management Unit, provides a powerful path for accessing the database of the system via IP addressing, exchange data and commands from an external CT server, send a Voicemail to your Mailbox to fulfill the UMS (Unified Messaging) requirement. Although the TDS has a high speed (56K maximum) COM port to communicate with external devices, this LAN interface (10/100Base T - dual/fast Ethernet) is dedicated for the

higher speed required in some advanced features, such as Voice Messaging and Image transfer.

This DIA capability also enhances customer service. The service center can handle inquiries or requests faster, more efficiently, and more cost-effectively.

### **Integrated Auto Attendant and Voicemail**

Auto Attendant and Voicemail are practical commodities for all modern communication systems. The TDS integrated Unified Message System offers Auto Attendant and Voicemail that processes calls quickly to serve your customers more efficiently.

As an integrated solution, the unified messaging system can deliver voice mail to any entity that is registered within the Enterprise via message light, paging notification, cell phone or via email with a voice mail attachment.

There are also virtual mailbox options, multi level menu trees in the auto attendant. You can even manage multiple mailboxes that appear as separate keys on your telephone set!.....i.e. sales, urgent orders, brochure requests etc.

### **Caller ID for traditional Single line stations**

CLI (Calling Line Identification) capability is a common requirement for most customers, viewing the CLI through the LCD display on the TransTel system phones and IP phones is a good feature, but the CLI information can also be received by the CLI standard phone at the SLT (Single Line Telephone) interface. The TDS not only transfers the external CLI but also shows you which extension is calling you during intercom calls.

### **Message Lamp on Single Line stations**

The TDS can generate industry standard message waiting signals to light the message lamp on single line telephones, ideal for the hospitality industry or for voice messaging applications using inexpensive analog type telephones.

### **Power failure protection**

In the event of a power supply failure, the TDS system will continue normal operation for an hour or more running on standard batteries. Without batteries, or when the batteries are exhausted, the system, by configuration, will automatically route calls to single line telephones, so that communications can continue. When the power is restored, the system will revert to its normal connections.

### **Paging, Music on Hold, Background Music**

The TDS allows all types of extensions to access a variety of paging types. Internal paging through the speaker of System and Access Control Phones. External paging through an external PA system. MOH (Music on Hold) to allow outside callers to listen to music when put on "Hold". The advanced integrated Unified Messaging System (UMS) can hold recordings of desired music or messages for different groups of outside lines. BGM (Back Ground Music) is a benefit feature for an employee to listen to music when a system phone is idle.

## Access Control Phone

The ACP (Access Control Phone) provides an audio path to extensions or external lines, RFID detector for proximity card, relay to open the door or activate a siren and a sensor to detect alarm status. It has many different combinations, such as a door phone at the front or back door, normal wall mount phone with handsfree answer back, two-way speaker, security control panel and access control device.

## TDS Applications

### Multi-national Organization

VPN on VoIP - One number for all members world wide within the organization.

### Clinic or Hospital

ACP works as a two-way speaker for nurse and patient, patient monitoring, doctor's wall mount phone to auto answer the call without touching any buttons.

### Hotel

Offering PMS Protocol, Caller ID, Message Lamp to the room, check in, check out. Access Control Phone (ACP) for VIP rooms or floor control. CT Star software for the operator to check guest information, room status, leave messages. ACP as a door phone for guests to answer the door without opening the door; large LED display for showing status of DND or "Clean the room" outside the door. An ACP can also be used as a keyless entry system and/or door open alarm.

## System Features

- Account Code Capability
- Alarm - Station
- Answer Call Waiting
- Automatic Answer-Intercom
- Automatic Attendant \*
- Automatic Call Back (Camp-On)
- Automatic Line Access
- Automatic Redial
- Call Waiting
- Call Transfer
- Call Forwarding (Follow Me)
- Camp On
- CLI on both External and Internal Call \*
- Conference for more parties
- CTI Integration \*
- Check In and Check Out
- Data and Time backup without Battery
- Day and Night Service
- DID Trunk \*
- Direct Call Pick Up
- Directory Dial for Speed Dial
- Direct Inward System Access \*
- Distinctive Dial Tone and Ringing
- Doorphone Calling and Opening \*
- Executive Override (Barge-In)
- E & M Trunk \*
- Flash (Open Loop Timed Flash)
- Hunt Group
- Last Number Redial
- Line Reverse Detection
- Lock / Unlock Extensions
- Multiple Music on Hold \*
- Macro Keys
- One Touch Dialling
- Paging / Meet-Me Page
- Privacy Release
- Programmable Keys
- Security Code

- SLT HOLD Operation
- SMDR Buffers
- System Speed Dial and Personal Speed Dial
- Toll Restriction
- Voicemail Integration \*
- Wake Up Service \*

## Display Features:

- Account Code Display
- Absent Message Display
- Call Duration Timer
- Call Log Information
- Call Processing Information
- Called Extension Name Display
- CLI or Caller ID Information \*
- Conference Information
- Date and Time Display
- Dialed Number
- Enhanced Station Programming
- Message Waiting Caller Information
- Name of Outside Caller
- Override Identification
- Soft Keys
- System Programming

\* : optional: Extra cost equipment may be required for this feature.





**Note:**

1. Above capacity shown as the maximum figure, due to the limitation of available slots, the exact capacity will be dependant on how many slots are available for each interface.
2. Extensions refers to the maximum number of extensions.
3. Outside Lines refers to the maximum number of outside lines, that is a combination of E1 or PRI plus ISDN, PSTN Lines.
4. Outside Slots refers to the available slots for PSTN, ISDN, T1/E1, VoIP.
5. One ISDN BRI has 2 outside lines
6. One ISDN PRI has 23 or 30 outside lines
7. One T1 has 24 outside lines.
8. One E1 has 30 outside lines.
9. One Voice Mail Slot may have 4 or 6 channels

**TDS Series Specification**

	TDS40	TDS64	TDS80	TDS160	TDS320	TDS640	TDS1280
Cabinets	1	1	1	2	4	8	16
Max Stations	32	48	80	160	320	640	1280
Digital Stations Max	32	40	80	160	320	640	1280
Single Line Stations Max	32	48	80	160	320	640	1280
Access Control Phone Max	32	40	80	160	320	640	1280

**Trunking and Outside Lines**

	TDS40	TDS64	TDS80	TDS160	TDS320	TDS640	TDS1280
Outside Line Card Slots	2	4	5	10	20	40	80
Analog CO Lines (max)	16	32	40	80	160	255	500
Digital Channels	24 30	24 30	24 30	48 60	96 120	192 240	384 480
T1/E1	T1 E1	T1 E1	T1 E1	T1 E1	T1 E1	T1 E1	T1 E1
Digital Channels	23 30	23 30	23 30	46 60	92 120	184 240	368 480
PRI T1/PRI E1	T1 E1	T1 E1	T1 E1	T1 E1	T1 E1	T1 E1	T1 E1
Combo Digital (PRI) & Analog Lines	32	32	54	108	216	255	500
VoIP Trunk (max)	16	32	40	80	160	255	500
VoIP Station (max)	32	40	80	160	320	640	1280

**DK Series****DK6-36D**

LCD Display, 36 programmable keys

**DK6-36DBT**

Handsfree, Large LCD Display, Bluetooth

**DK6-18D**

LCD Display, 18 programmable keys

**DK6-18**

18 programmable keys, on-hook dialing

**DK6-DSS**

60 Buttons Direct Station Selection

**IP38-61**

IP Key Telephone, Handsfree, LCD Display

**DK2-D**

Handsfree, Large LCD Display

**DK2-DBT**

Handsfree, Large LCD Display, Bluetooth

**DK2-DSS**

66 Buttons Direct Station Selection

**DK3-D**

Handsfree, LCD Display

**DK3-31**

LCD Display

**DK3-B**

On-hook Dial

**DK-ACP**

Access Control Phone



DK6-36D



DK6-18D



IP38-61



DK6-DSS



DK2-D (B)



DK2-DSS (B)



DK2-D (W)



DK2-DSS (W)



DK3-D (B)



DK3-D (W)



DK3-B (B)



DK3-B (W)

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