

Boost the Capacity and Capability of your TDA System with a Version 2.04 Upgrade.

Panasonic enhances its KX-TDA15/30 Hybrid IP PBX line-up providing excellent new functionalities targeting Small and Medium size businesses.

With support for SIP trunks, IP phone extensions, improved Call Centre, and ICD Group and DISA features, and many more - experience even more power with a feature rich Version upgrade.



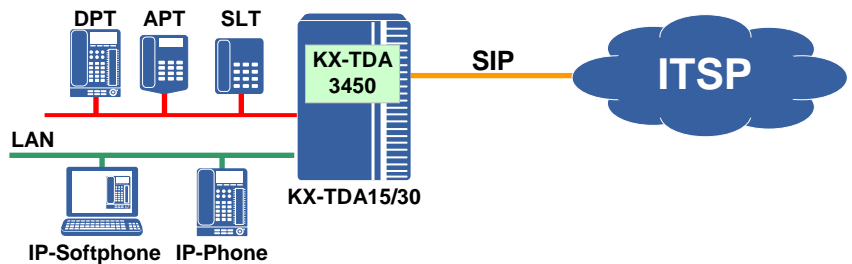
Main Feature Enhancements

SIP Trunks for low-cost tariff VOIP calls

- **SIP-GW4 with SIP VoIP Trunk Compatibility** – A new SIP protocol based gateway card called **SIP-GW4** (KX-TDA3450) is available, supporting the ability to connect KX-TDA15/30 Hybrid IP PBXs to the growing list of SIP based Internet Telephony Service Providers (ITSP) to achieve low-cost VOIP calls over broadband IP network. The SIP-GW4 comes with 4 port SIP trunk support which can be increased further to 8-ports by installing the optional SIP-DSP4 (KX-TDA3451) module. Each port on the SIP gateway card supports 1 bi-directional voice communication. The SIP gateway card also supports web programming for easy programming and configuration.

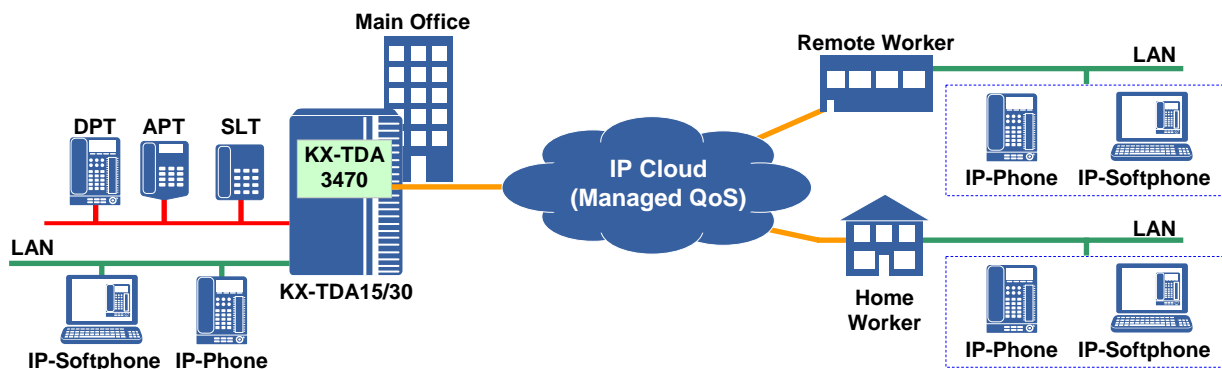
Supports SIP 2.0.
RFC3261 (UDP),
RFC3262 (PRACK),
RFC3262 (Offer/Answer),
RFC3311 (UPDATE),
RFC4028 (Session Timer)

Telephony Feature Support:
Make Call/Receive call,
CLIP (Caller ID), and DDI.

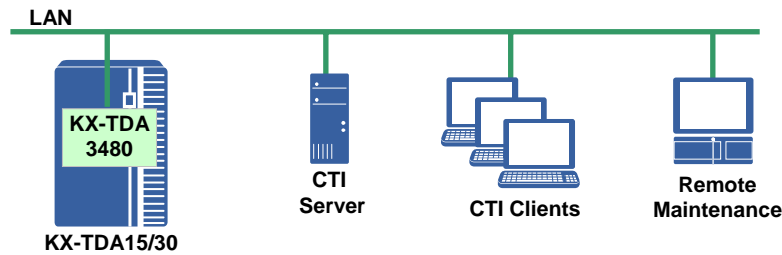


IP Phone Extension Support

- **IP-EXT4 with IP Phone Extension Support** – A new VoIP based IP Extension card called **IP-EXT4** (KX-TDA3470) is available, providing connection for Panasonic proprietary IP telephones. This provides support to remote/home workers by connecting system IP phones over VPNs or broadband internet connections. The 4 channel IP Extension card supports KX-NT136, KX-NT265 and KX-NCS8100 softphone. It will even support KX-NT300 series IP Proprietary telephones as these phones are released. One IP-EXT4 card can be installed in either the TDA15 or TDA30 IP PBX. There will be limitations when using NT300 series IP phones with the IP-EXT4 card. These limitations are: NT366 self-key labelling, and 60 CO Key DSS console is not supported.



LAN Connection for CTI and Remote Maintenance



- Enhanced IP-GW4 Card supports 3rd party CTI** – A software enhanced IP-GW4 card (KX-TDA3480) can now also be used to allow TDA15/30 customers to connect an external CTI server (e.g. using Panasonic TDA TSP) to provide common 3rd-party CTI solutions – e.g. Call Accounting and Reporting applications available in the market, Panasonic Phone Assistant productivity applications, and many more.
- Enhanced IP-GW4 Card supports Remote Maintenance** – The software enhanced IP-GW4 card (KX-TDA3480) allows dealers as well as system administrators to connect to a TDA15/30 from anywhere over an IP network to easily program and configure the phone system – reducing dealer trips and increasing easy system maintenance.
- IP-GW4 Card upgradeable** – Existing IP-GW4 Cards, primarily used to establish H.323 based VOIP connection between TDA15/30 and other TDA PBXs – can now have their software upgraded to provide the above enhancements. It should be noted that both 3rd Party CTI and PC Maintenance Console can work simultaneously.

Built-in Call Centre Feature Enhancement

- Alternative intercept busy destination** – A default intercept destination for busy extensions can be added through system programming. Any extension, which has not been programmed with an individual intercept destination, will automatically use the default destination.
- Independent Intercept no answer timer for extension** – Extensions can be programmed with their own Intercept Routing No Answer (IRNA) timer for day, lunch, break, and night modes.
- Intercept Routing for extension-to-extension calls** – Intercept routing now works for both extension calls in addition to incoming CO calls.
- Incoming call log for answered ICD group call** – An ICD group call log can be enabled for both Answered and No-Answer incoming calls allowing agents to easily view and keep track of incoming calls via DPT group call log.

DISA Enhancement

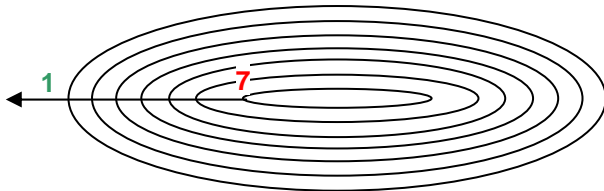
- Intercept destination for each DISA (no dial)** – When a call is answered by DISA and no DTMF tone received, the call can now be routed to one of the following pre-programmed destinations: Automated Attendant (0), Automated Attendant (9), Operator, or Disconnected.
- Intercept destination for each DISA (DISA busy)** – When a call is answered by DISA and all DISA channels are busy, the call can be routed to one of the following pre-programmed destinations: Automated Attendant (0), Automated Attendant (9), Operator, or Disconnected.

General PBX Feature Improvements

- 5 Digit Extension Numbering** – Extension numbering has been expanded from 3 digit to 5 digit numbering allowing multi-site customers, specially those with high-capacity TDA600 systems to have transparent interoffice dialling plans.
- Walking Extension support for IP-Extension and IP-Softphone** – In addition to DPT and SLT – the enhancement now allows any DPT/SLT user to use any IP-PT or IP-Softphone as their own desk extension by using their PIN code. Users can login and change the extension number to their own DPT/SLT for temporary use. This feature is enabled when feature number (*727) + extension number you wish to use (e.g. 201) + PIN number is entered.

- **Walking COS changes CLIP number** – An extension user can change their Class Of Service (COS) by using Walking COS feature (*47 + extension number + PIN). The extension will then send different CLIP number depending upon which COS they are logged in as.
- **TRS Function Improvement** – Trunk Route Selection (TRS) has been vastly improved where previously out of the seven (7) TRS levels - each subsequent level used to get the limits of the preceding TRS level, now – each TRS level can be set independently of preceding levels, with pre-programmable Deny and Except codes for each level. As an example – TRS level 2 can be set to limit national calls, while TRS level 3 through 6 can still have access to make national calls.

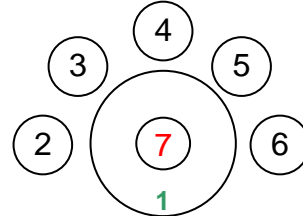
Previous TRS Functionality



TRS Levels

- 1 = Unrestricted Trunk Access
- 7 = Restricted Trunk Access
- 2 – 6 = Progressive Restricted Access

New TRS Functionality



TRS Levels

- 1 = Unrestricted Trunk Access
- 7 = Restricted Trunk Access
- 2 – 6 = Programmable Restricted / Unrestricted Access

- **Music On Hold by DDI/DIL tenant base** – The system now allows the situation where two tenants / companies share a common Operator, but wish to have different On-Hold music. When operator puts the incoming caller on hold – the proper On-Hold music is played out to the caller based on incoming DDI/DIL. The Background Music (BGM) can be set by Tenant numbering in PC Programming tool.
- **Caller ID notification when Voice Mail transfer** – When an Incoming CO call is transferred to another extension's Voice Mail box, Caller-ID information is now also sent to the Voice Mail system. When the Voice Mail is accessed by an extension, proper external party Caller-ID information appears on LCD display.
- **Call Log on Busy Extension (Busy/FWD-All)** – When an Incoming CO call arrives at a Busy extension which is set to forward all calls, even though the system DPT phone may not ring, the missed call log information is kept and can be accessed / displayed on DPT LCD display.
- **D-PT Disconnect/Re-connect status to SMDR** – When an Extension is disconnected and Re-connected to the TDA PBX, alarm notification is sent to the SMDR. The information sent contains alarm number: 329 (disconnect) or 398 (re-connect) and slot and port number of the extension. Default setting: Disable
- **Automatic Call Waiting for Extension Call** – Call waiting can now be enabled for extension-to-extension calls in addition to incoming CO calls without requiring special Busy Station Select (BSS) operation. A ring-back tone is heard instead of a busy tone. <Note: System programming is required.>
- **E1 Private Network using DR2 CH** – Starting with this version - when using a TIE line connection (leased line etc) to link two TDA PBXs together, E1 DR2 signalling type can also be used. E1 DR2 is one of the most common interfaces for private data networking equipment.

Hardware Enhancements

- **SIP-GW Card (KX-TDA3450)** – The New 4 channel SIP Gateway card.
- **SIP DSP4 Option Card (KX-TDA3451)** – Optional 4 Channel daughter board for TDA3450 increases the maximum SIP channels available from 4 to 8.
- **IP-EXT4 Card (KX-TDA3470)** - The New 4 channel IP Extension Card supporting IP Phones.
- **IP-GW4 CTI –Link feature (KX-TDA3480)** – Enhanced KX-TDA3480 IP-GW card to provide:
 - CTI Link functions, and
 - Support for PC Maintenance Console for PBX Configuration/Programming.