



---

**Portico™ Telephone VoIP Adapter (TVA™) BETA 6.01.0 release build.**

Citel is pleased to announce that it has enhanced functionality for its award winning Portico™ Telephone VoIP Adapter (TVA™) with the new firmware being released as version 6.01.0.

New features in this release include the following:

1. The Portico™ TVA™ for P-Phones is now suitable for Central Office (CO) installation.
  - a) Maximum recommended loop length extended to **15 000 feet**.
  - b) -48VDC power input option now available (new hardware required).
2. SIP signaling enhancements
  - a) Metaswitch Shared Call Appearances.
  - b) Increased maximum URI length
  - c) 'sendonly' hold method.
3. Further enhancements for particular digital phones
  - a) Alcatel phones
  - b) Avaya Definity "comfort tones".
  - c) Extra control for phones with only one line of display.
4. Country specific enhancements

## Overview

Citel's Portico TVA is a network-edge device that enables delivery of VoIP features and applications to digital (PBX), P phone (Centrex), and analog handsets, over existing cabling. The new software is available to users whose product is in warranty, under a maintenance contract or who are eligible to purchase the latest firmware.

# Feature Pack Item Descriptions

## **1. P-Phone Central Office features.**

### **a) Maximum recommended loop length now extended to 15 000 feet.**

Previous releases of TVA software are for premises based installation, with a maximum loop length recommended of 1600 feet.

Release 6.01.0 has reworked the handling of the P-Phone signaling channel to support the maximum recommendations of the original P-Phone specification [1] for operation up to 15000 feet. This allows the TVA to be deployed in situ to drive P-Phone lines where carriers are migrating their Central Office customers over to a hosted or cloud based IP telephony offering, or where DMS 100 Centrex equipment is being decommissioned.

This release regression tested at 1000, 2000, 3000... to 15 000 feet.

#### Note.

*Where telephone lines are running outside of a single building the continued installation of appropriate surge protection should be confirmed and maintained [2].*

### **b) -48VDC power input now option now available (new hardware required).**

With this release, it is now possible to order P-Phone TVA hardware with a -48VDC power input, rather than the usual 110/220V mains AC input. This enables the device to be powered by the native 48vDC power supply frequently found in a telecoms central office environment.

#### Note.

*When installing the -48VDC version of P Phone TVA, be sure to consult the specific installation guidelines in the Install and Config Guide [2.]*

## **2. SIP signaling enhancements**

### **a) Metaswitch Shared Call Appearances.**

TVA has been retested with Metaswitch's implementation of Shared Line Appearances [3]. Metaswitch software version: 7.3. You can now pickup a held call on another phone sharing the line registration. Also the TVA's context sensitive help now clarifies the Shared Line URI format needed by Metaswitch for the pickup feature to work (a little different to Broadsoft). This feature can be used to deliver MADN type functionality

### **b) Increased maximum URI length**

URI length increased from a maximum 64 bytes to 128 bytes. It has been found that the previous limit of 64 bytes for a SIP URI can be too short. The longer SIP URI field will be included in future releases of digital and Centrex TVA. This point release is for use by Centrex customers who have an urgent requirement for the change.

### **c) 'sendonly' now signaled in hold SDP, along with 0.0.0.0**

When putting a TVA connected phone on hold, the TVA will now mark the SDP mark as sendonly with the "a=sendonly" attribute, as per RFC 3264 [4]. TVA will continue to set the connection address to 0.0.0.0 (as per RFC 2543 [5] ) to maintain backward compatibility. This will help some Asterisk users, as there are versions of Asterisk, e.g. version 1.8.8, which do not support the SDP connection address 0.0.0.0 method of hold.

## **3. Further Enhancements for particular digital phones**

### **a) Further enhancements for Alcatel phones**

Added volume control feature on flexible buttons which are available on Alcatel 4010 and 4020 phones.

Added 3 ring tones at 3 volumes each for Alcatel phones. These are controlled from the Configure Handset pages.

### **b) Avaya Definity "comfort tones".**

Comfort bleeps played when hands-free dialing on Avaya Definity

### **c) Extra control for phones with only one line of display.**

For phones with only one line of LCD display there is a new switch on the System Settings page: "Display Phone Number only on single-line display phones"

If this box is checked, when the phone is ringing or connected, the display will not toggle between two character strings like normal (e.g. "Calling:" or "Connected To:"), but will just continue to display the remote number.

## **4. Country specific enhancements**

### **a) Belgian call progress tones**

Belgian progress tones have been added, under the Belgium country code setting on the Console interface.

## Affected Citel Products

Product Name	Model Description	Product Code	Features*
Portico TVA12A	12-port analog-compatible, 0 FXO	H-SIP3A-RUC12	2, 4
	12-port analog-compatible, 1 FXO	H-SIP3AZ-RUC12	2, 4
	12-port analog-compatible, 2 FXO	H-SIP3AY-RUC12	2, 4
Portico TVA24A	24-port analog-compatible, 0 FXO	H-SIP3A-RUC24	2, 4
	24-port analog-compatible, 1 FXO	H-SIP3AZ-RUC24	2, 4
	24-port analog-compatible, 2 FXO	H-SIP3AY-RUC24	2, 4
Portico TVA12D	12-port digital-compatible, 0 FXO	H-SIP3D-RUC12	2, 3, 4
	12-port digital-compatible, 1 FXO	H-SIP3DZ-RUC12	2, 3, 4
	12-port digital-compatible, 2 FXO	H-SIP3DY-RUC12	2, 3, 4
Portico TVA24D	24-port digital-compatible, 0 FXO	H-SIP3D-RUC24	2, 3, 4
	24-port digital-compatible, 1 FXO	H-SIP3DZ-RUC24	2, 3, 4
	24-port digital-compatible, 2 FXO	H-SIP3DY-RUC24	2, 3, 4
Portico TVA12P	12-port P phone-compatible, 0 FXO	H-SIP3P-RUC12	1, 2, 4
	12-port P phone-compatible, 1 FXO	H-SIP3PZ-RUC12	1, 2, 4
	12-port P phone-compatible, 2 FXO	H-SIP3PY-RUC12	1a, 2, 4
Portico TVA24P	24-port P phone-compatible, 0 FXO	H-SIP3P-RUC24	1a, 2, 4
	24-port P phone-compatible, 1 FXO	H-SIP3PZ-RUC24	1a, 2, 4
	24-port P phone-compatible, 2 FXO	H-SIP3PY-RUC24	1a, 2, 4
Portico TVA12P DC	12-port P phone compatible DC PSU	H-SIP3P-RUC12DC	1, 2, 4
Portico TVA24P DC	24-port P phone compatible DC PSU	H-SIP3P-RUC24DC	1, 2, 4

### \* Note.

The new Central Office features relate only to P phone TVAs.

## References

- [1] Nortel Interface Specification, Addendum NIS S106-2
- [2] Portico TVA Install & Config Guide, for version 6.01. [www.citel.com/ptvdownloads](http://www.citel.com/ptvdownloads)
- [3] MetaSwitch VoIP SIP Device Control, March, 2011 Version V7.3
- [4] RFC 3264 "An Offer/Answer Model with SDP" section 5.1.
- [5] RFC2543 SIP: Session Initiation Protocol

<b>Corporate Headquarters</b> 221 Commerce Drive Amherst New York 14228 USA	<b>European Headquarters</b> Loughborough Innovation Centre, Holywell Park Loughborough LE11 3AQ United Kingdom	<b>Canadian Headquarters</b> 151 North Rivermede Drive Concord, Ontario L4K 0C4 Canada	<b>Regional Offices</b> Vancouver, BC	<b>For More Information</b> Contact Citel Directly  <a href="mailto:sales@citel.com">sales@citel.com</a>  Phone 1-206 957-6270 Toll Free 877 248 3587 <a href="http://www.citel.com">www.citel.com</a>
---	--	--	--	---

©2011 Citel Technologies Inc. All Rights Reserved. Citel, The VoIP Migration Company, Portico, TVA, are trademarks of Citel Technologies Inc. other products and trademarks mentioned herein are property of their respective owners. The information and products contained in this document are subject to change without notice.