

# Product Release Notice

## ErisTerminal® 1.0.3.1 to 1.0.4.8 Firmware VDP650

Release Date: August 2022

This document contains the release notes for VTech ErisTerminal® version 1.0.3.1 to 1.0.4.8.

This upgrade release, affecting the VDP650 ErisTerminal® Base Station, includes significant enhancements. Therefore, users of previous VTech ErisTerminal® releases are encouraged to upgrade.

The following topics are detailed below.

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### Important Notes

- Please make sure you read ALL of the information below before installing the software on your device.
- Please install and test the software in your environment before mass deployment.
- We encourage you to read and follow our security advisories.

### 1.0.3.1 Release

#### New Features

##### Enhanced DECT Statistics for remote Diagnostics (#6253)

Enable Polling of DECT Statistics for VDP650 via RESTful API.

The Handset firmware version is now included in the diagnostic statistics.

##### Deliver remote diagnostics via HTTP(s) Post on the VDP650 (MCP-1340)

The VDP650 can retrieve DECT Statistics of its handsets via a periodic HTTP POST.

Added the following new parameters:

Parameter	Description	WUI	PUI	Values	Default
hs_settings.statistics_post_authentication_name	Authentication user name for the HTTP post to retrieve DECT Statistics.	N/A	N/A	string	blank
hs_settings.statistics_post_authentication_password	Authentication password for the HTTP post to retrieve DECT Statistics.	N/A	N/A	string	blank
hs_settings.statistics_post_timer	Frequency (in seconds) to perform the HTTP POST operation to retrieve DECT Statistics. Note: To avoid re-POST on the same information multiple times, the post timer should be greater than or equal to the hs_settings.statistics_timer.	N/A	N/A	0-3600	900
hs_settings.statistics_post_url	URL for the device to perform the HTTP POST operation to retrieve DECT Statistics.	N/A	N/A	string	blank

## Added DHCPv6 option 56 for NTP (#6365)

Added support for DHCPv6 option 56 (NTP) in addition to the already existing option 31 (SNTP).

If a network contains both options at the same time, the following priority is used:

1. option 56, subcode 1 (IPv6 address)
2. option 56, subcode 2 multicast
3. option 56, subcode 3 FQDN
4. option 31

## Added 802.1x EAP-TLS support (#6442)

Added 802.1x EAP-TLS support for the device.

Added the following new parameters:

Parameter	Description	WUI	PUI	Values	Default
network.eapol. mode	Sets the EAP type	Network > Advanced > 802.1x > EAP Type	N/A	md5 peap tls	md5
network.eapol. peap_ca_path	Import the 802.1x EAPOL PEAP server CA certificate	Network > Advanced > 802.1x > Import Server CA (EAP Type: PEAP)	N/A	certificate	blank
network.eapol. peap_identity	Sets the 802.1x EAPOL PEAP identity	Network > Advanced > 802.1x > Identity (EAP Type: PEAP)	N/A	text string	blank
network.eapol. peap_password	Sets the 802.1x EAPOL PEAP password	Network > Advanced > 802.1x > Password (EAP Type: PEAP)	N/A	text string	blank
network.eapol. peap_verify _server_cert	Enable 802.1x EAPOL PEAP server certificate verification	Network > Advanced > 802.1x > Enable Server Cert Verification (EAP Type: PEAP)	N/A	0 (disabled) 1 (enabled)	0

Parameter	Description	WUI	PUI	Values	Default
network.eapol.tls_ca_path	Import the 802.1x EAPOL TLS server CA certificate	Network > Advanced > 802.1x > Import Server CA (EAP Type: TLS)	N/A	certificate	blank
network.eapol.tls_certificate	Import the 802.1x EAPOL TLS custom certificate	Network > Advanced > 802.1x > Import Custom Certificate (EAP Type: TLS)	N/A	certificate	blank
network.eapol.tls_identity	Sets the 802.1x EAPOL TLS identity	Network > Advanced > 802.1x > Identity (EAP Type: TLS)	N/A	text string	blank
network.eapol.tls_private_key	Import the 802.1x EAPOL TLS private key	Network > Advanced > 802.1x > Import Custom Private Key (EAP Type: TLS)	N/A	certificate	blank
network.eapol.tls_private_key_password	Sets the 802.1x EAPOL TLS private key password	Network > Advanced > 802.1x > private Key password (EAP Type: TLS)	N/A	text string	blank
network.eapol.tls_verify_server_cert	Enable 802.1x EAPOL TLS server certificate verification	Network > Advanced > 802.1x > Enable Server Cert Verification (EAP Type: TLS)	N/A	0 (disabled) 1 (enabled)	0

### New option to configure reboot behavior of check-sync without reboot parameter (#6444)

Added the following new parameter:

Parameter	Description	WUI	PUI	Values	Default
provisioning.checksync_reboot	Instructs the VDP650 to either reboot or just sync when receiving a check-sync event without ";reboot=false". <ul style="list-style-type: none"> <li>If set to 0: When the server sends a Notify w/ Event=check-sync, the M100 will NOT reboot.</li> <li>If set to 1: When the server sends a Notify w/ Event=check-sync, the VDP650 will reboot.</li> </ul>	N/A	N/A	0 or 1	1

### New "support" login for accessing DECT statistics (#6445)

Created a new support login credential to enable access of the DECT statistics page on the Web User Interface - `http(s)://<host:port>/dect_statistics.kl1`.

The username is **support** and won't be configurable as in the case of **user** and **admin**.

Added the following new parameter:

Parameter	Description	WUI	PUI	Values	Default
profile.support.access_password	Sets the support password for accessing the DECT Statistics page on the WUI. This password can only be set via provisioning.	N/A	N/A	text string	support

Usernames **user** and **admin** cannot access the DECT Statistics page. Instead, the message "ERROR – Not authorized to view the requested page" appears.

### Improved stability of Watchdog service (#6513)

Activated and improved general stability of the Watchdog service.

Added the following new parameter:

Parameter	Description	WUI	PUI	Values	Default
system.boot_status	Stores the boot status of the device. Reboot by watchdog is denoted as 'w'. Normal bootup is denoted as '0'. Maximum 20 statuses are stored.	N/A	N/A	w 0	blank

### Add Outbound Proxy Fallback to VDP650 (#6733)

Added the following new parameter:

Parameter	Description	WUI	PUI	Values	Default
sip_account.x. outbound_proxy _fallback_enable	Outbound proxy fallback enable	N/A	N/A	0 (disabled) 1 (enabled)	1

### Other New Features

Description	Reference
Added support for DHCPv6 option 21 & 22	#6335

## Improvements and Modifications

### Better labeled DHCPv4 options to make it easier for users to identify (#6446)

Changed some field labels on the Web portal.

On the SERVICING → Time and Date page:

- Changed "Use DHCP (Option 42)" to "Use DHCPv4 Option 42"

On the SERVICING → Provisioning page:

- Changed "Use DHCP Options" to "Use DHCPv4 Options"
- Changed "DHCP Option Priority 1" to "DHCPv4 Option Priority 1"
- Changed "DHCP Option Priority 2" to "DHCPv4 Option Priority 2"
- Changed "DHCP Option Priority 3" to "DHCPv4 Option Priority 3"
- Changed "Vendor Class ID (DHCP 60)" to "Vendor Class ID (DHCPv4 60)"
- Changed "User Class Info (DHCP 77)" to "User Class Info (DHCPv4 77)"

### Additional DECT statistics info (#6447, #6450)

Added the following statistics to the DECT Statistics page on the Web User Interface - `http(s)://<host:port>/dect_statistics.kl1`:

- `sip_accounts` – list of accounts assigned to the handset
- `reg_to_repeater` – whether the handset is connected to the repeater

### Other Improvements and Modifications

<b>Description</b>	<b>Reference</b>
Updated built-in CA certificates	#6270
General performance improvement for call operation and network traffic optimization	#6425
Reduce audio connection time when answering calls	#6467
General improvement on stability	#6514
Longer string support with userid and password fields of HTTP basic authentication	#6516
Added Web server sessions encryption	#6517
Reduce DTMF feedback volume to a more comfortable level	#6524
Disallow barge-in before outgoing call is answered by far-end	#6575
Remote XML directory is not supported. Removed the "Remote XML" directory configuration page from the WUI.	#6577
Improve stability when cordless device connects through repeater	#6673
Improve stability in handling registration retry between outbound proxy and backup outbound proxy	#6722

## Corrections

### Resumed support for phonebook import in CSV format (#6691)

Updated support for importing/exporting CSV blacklist/base directory files on WUI.

Added the following new parameters:

Parameter	Description	WUI	PUI	Values	Default
contact.blacklist.format	Format of Blacklist contact data file to be imported/exported	N/A	N/A	xml xml-tbook csv	xml
contact.directory.format	Format of Base Directory contact data file to be imported/exported	N/A	N/A	xml xml-tbook csv	xml

### Other corrections

Description	Reference
Handset sometimes shows incorrect date & time	#6153
Certain TR-069 ACS URL settings can cause DNS query to loop	#6228
Responds with 400 Bad Request when receiving PNP NOTIFY with missing domain	#6316
Special characters !\#\$%&\'()*+,-./:;=?@[] cannot be used in provisioning password	#6317
Faulty ringback with blind transfer operation	#6326
Local contacts can be cleared if base is powered down shortly after deleting contact entries	#6328
Missing SIP un-registration if reset phone base via WUI	#6338
Base reboots after manually de-registering handset with AutoReg enabled	#6339
Modifying handset registration via provisioning does not work properly	#6340
IPv6 solicitation messages still go out even if IPv6 is disabled	#6341
Missed call count not reset after deleting the missed call list	#6342
Unexpected characters are found in exported VTech tbook XML format	#6350
Base can reboot on repeated unanswered hunt group calls	#6392
Missing entries with LDAP directory search in some cases	#6401
LED indication on handset Line key keys do not indicate correctly for held calls	#6420
Stop resubscription traffic if subscription for voicemail fails with 403	#6423
Added ringer tone and account fields to VTech contact XML format	#6430



<b>Description</b>	<b>Reference</b>
Held call is lost after far-end transfer the call to another party	#6431
Cannot reject other call waiting calls after answering one of multiple concurrent incoming calls	#6433
Stuttered dial tone sometimes not available with new voicemail	#6434
Missing incoming call screen for the incoming call received during conference when handset conference host ends conference call	#6435
Change in default account does not take effect	#6436
Certain configuration with stutter dial tone can crash the device	#6439
"Ghost" call remained on Call list even when call has been terminated	#6440
Failed to resume call on Call list after the call is attempted to be transferred but gets ignored	#6441
Incoming call falsely triggered with back-to-back off hook, and then on hook on handset	#6452
Provisioning XML config file can cause base to crash	#6453
URL with DHCP option #66 requires '/' at the end of the address string to function	#6455
"sip uri" scheme should be used instead of "sips uri" scheme if parameter sip_account.sips_uri_enable is set to 0	#6471
SIP traffic continues to use old IPv6 address after DHCP renews with a new IPv6 address	#6473
Bases sometimes don't apply the configuration provided via provisioning	#6505
Factory default can cause assert after provisioning and firmware updated	#6525
Not able to export/import CSV phonebook via WUI when contact datamodules set to xml-tbook. CSV contact entry with 3 fields per line cannot be export/import.	#6532
Wrong call party is being blind transferred	#6546
Answering an ignored call waiting call on Call list can result in a one-way audio call	#6565
Failed to resume an ignored call waiting call on Call list	#6568
Base resets if far end drops call before handset completes a blind transfer	#6591
Base becomes unresponsive after calling a Fax number	#6598
Base LED continues to blink even DECT registration times out or fails. Deregistration triggered on base should perform deregister ALL instead of deregister handset one by one.	#6743
Base can reboot on repeated forwarded hunt group calls	#6795

## Parameter Changes

The following configuration file parameters have been introduced or modified in 1.0.3.1.

contact.blacklist.format	New parameter
contact.directory.format	New parameter
file.hs_idle_logo	Deleted parameter
hs_settings.statistics_post_authentication_name	New parameter
hs_settings.statistics_post_authentication_password	New parameter
hs_settings.statistics_post_timer	New parameter
hs_settings.statistics_post_url	New parameter
network.eapol.mode	New parameter
network.eapol.peap_ca_path	New parameter
network.eapol.peap_identity	New parameter
network.eapol.peap_password	New parameter
network.eapol.peap_verify_server_cert	New parameter
network.eapol.tls_ca_path	New parameter
network.eapol.tls_certificate	New parameter
network.eapol.tls_identity	New parameter
network.eapol.tls_privite_key	New parameter
network.eapol.tls_privite_key_password	New parameter
network.eapol.tls_verify_server_cert	New parameter
profile.support.access_password	New parameter
provisioning.checksync_reboot	New parameter
sip_account.x.outbound_proxy_failback_enable	New parameter
system.boot_status	New parameter

### 1.0.4.0 Release

#### New Features

##### Emergency Dialing feature (VTECHDEV-454, 456, 457, 499)

Add Emergency Dialing at any time:

- Emergency number can be dialed without any prefix.
- Emergency dialing can be performed while keypad is locked.

Added the following new parameters:

Parameter	Description	WUI	PUI	Values	Default
e911.enable	Enable Emergency Dialing feature	N/A	N/A	0 = false 1 = true	1
e911.emergency_numbers	Maximum four emergency numbers separated by space e.g. 911 112 110 999	N/A	N/A	Text string	911

The text "Priority: emergency" is added in the SIP header if the dial number matches with parameter **e911.emergency\_numbers**.

##### Add support of ethernet chipset RTL8363NB-VB (VTECHDEV-722)

Added support for new Ethernet chipset RTL8363NB-VB on the M100 in hardware rev R2A.

The 1.0.4.0 version of software will be backward compatible with older hardware revisions.

**NOTE:** If the new hardware rev R2A is being deployed - do not downgrade the firmware to a version older than v1.0.4.0.

#### Improvements and Modifications

Description	Reference
Improved compatibility with repeater mode operation - Only support narrow band DECT audio when repeater mode is ON	#6825

#### Corrections

Description	Reference
Provisioning via PnP may not work if IP is available late when phone powers up	VTECHDEV-297
Fixed an issue with IPv6 that DSCP (TOS) was not mapped correctly to 802.11 QOS control field	VTECHDEV-470

<b>Description</b>	<b>Reference</b>
Directory search returns wrong result with an entry that is one before the expected result on an alphabetically sorted list	VTECHDEV-561
Provisioning server path involving query elements specified via DHCP option does not function correctly	VTECHDEV-613
Held call is lost after attended transfer the call to another party	VTECHDEV-679

### Parameter Changes

The following configuration file parameters have been introduced or modified in 1.0.4.0.

e911.enable	New parameter
e911.emergency_numbers	New parameter

### 1.0.4.8 Release

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#### Improvements and Modifications

<b>Description</b>	<b>Reference</b>
Added MAC Address in User-Agent SIP Header	VTECHDEV-704

### How to upgrade

Please refer to the Administrator and Provisioning Manual for your VTech product, available at: <https://www.vtechphones.com/support/technical-support/product/4120>.

### Version compatibility

Version 1.0.4.8 is compatible with previous versions.

### Manuals

For more information on the features described in this document, please reference the manuals and technical documents located here:

<https://www.vtechphones.com/support/technical-support/product/4120>.

### Product support

For additional questions, please contact VTech Support at:

<https://www.vtechphones.com/support/contact-us>

### List of acronyms used in this document

ACS	Access Control Server
API	Application Programming Interface
CSV	Comma Separated Value
DECT	Digital Enhanced Cordless Telecommunications
DHCP	Dynamic Host Configuration Protocol
DHCPv4	Dynamic Host Configuration Protocol version 4
DHCPv6	Dynamic Host Configuration Protocol version 6
DNS	Domain Name System
DSCP	Differentiated Services Code Point
DTMF	Dual-tone multi-frequency
EAP-TLS	Extensible Authentication Protocol Transport Layer Security
HTTP	Hypertext Transfer Protocol
IPv4	Internet Protocol version 4
IPv6	Internet Protocol version 6
JSON	JavaScript Object Notation
LDAP	Lightweight Directory Access Protocol
LED	Light-emitting diode
LIS	Location Information Server
MAC	Media Access Control
NTP	Network Time Protocol
PAI	P-Asserted-Identity
PEAP	Protected Extensible Authentication Protocol
QoS	Quality of Service
SIP	Session Initiation Protocol
TCP	Transmission Control Protocol
TLS	Transport Layer Security
TOS	Type of Service
UDP	User Datagram Protocol
URL	Uniform Resource Locator
WUI	Web User Interface
XML	Extensible Markup Language