
What's new in Virtel

Release 4.62

Syspertec Communications

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CONTENTS

The following newsletter summarizes the new features and maintenance updates that can be found in Virtel Release 4.62 @ update level 6099.

INSTALLATION CHANGES

- 6043 \$RESTDSU modifications.
- 6048 Update VIRBATAR Samplib member.
- 6059 Modification Installtion JCL
- 6076 Update TCT samples. Correct UFILE and MACRF parms.
- 6086 Add z/VSE TCT's FR and EN.
- 6089 Add TN3270 section.

MIGRATION CONSIDERATIONS

2.1 V4.62

End of support for COMPATIBILITY mode

The “COMPATIBILITY” mode for w2hparm, that was introduced in version 4.54 to provide seamless migration of V4.53 w2hparm to V4.54. w2hparm is no longer supported from V4.61 onwards. It is recommended to switch to “Option” mode before migrating later releases.

6046 DCB value of STATS file changed to 255

This has been increased to 255. Reallocate any STATS file with a LRECL=255,RECFM=VB,BLK-SIZE=4096

Version support

Versions of Virtel older than V4.59 are no longer supported. It is recommended to migrate to the latest release.

ARBO changes

- There have been no changes to the ARBO which would require migration from V4.60 or V4.59. Customers who are migrating from older releases should review the “What’s new in Virtel V4.XX” newsletters to determine applicable migration actions for new distributed features. Depending on requirements not all actions may be applicable. These newsletters are available online at <https://virtel.readthedocs.io/en/latest/>

FIXES, CHANGES AND NEW FEATURES

3.1 Presentation

Updates to the W2H Javascript include

- 6042 Add buttons in the toolbar for TBT WebAccess features.
- 6045 Correction to the order in which customized fields are initialized in the W2HAPI.
- 6055 Color change. Change the CSS names for the NOCOLOR.
- 6058 Updated CappMenu menu feature, improved Color and FTP support.
- 6066 General maintenance.
- 6084 Synchronization of code between V461 and V462
- 6096 Virtel VWA 462 update for operation in EDGE in IE11 compatibility mode.

6052 Correct MDT Flag reset in VIR0023

In the ADMIN 3270 Terminal description display, not all fields were being correctly set with blanks beng inserted when certain key sequences were applied. This affected the STATS, Description and Terminal name fields.

6057 SIGNON BOX messages updated to improve security

The messages reporting credential failure have been updated.

6064 Correct Option button behavior

Option button had to be pressed twice. Corrected.

6079 VIR0T11 now the default TCP/IP program under z/VSE

VIR0T11 now the default TCP/IP program under z/VSE.

6082 TN3270 add “relay name” to status bar

The name of the Virtel pseudo terminal being used for the connection will be displayed on the status bar as a relay.

6083 VSE WTO message truncated

Correct truncation of messages in z/VSE

6091 Silence MultiLine messages

Multi-Line messages can now be silenced

3.2 Base Components

6041 Abend S0C4-38 after SNAP

Correct ABEND S0C4 in SNAP processing

6045 Correction to the order in which customized fields are initialized

Update initialization order of custom files.

6046 Update STATS DCB to record length of 255

Increase Statistics buffer size

6050 Prevent ABEND S0C4 in VIR0021W when USSMSG MSG=10 is coded as MSG=TEXT

Correct ABEND S0C4 when processing MSG=TEXT in USSMSG

6056 Cookies are lost after exiting the Vrtel session

Changes to improve behavior and provide a seamless return to the Vrtel screen when using the LOCK= feature and Security TYPE=1.

6051 VIRT923E ERROR REQ: PTON - RETCODE: FFFFFFFF ERRNO: 00000031 (00000049)

The x-Forwarded-For header can contain several addresses. Vrtel was passing the full header value to PTON instead of only the first address, which should be the client address. The other addresses are from proxies. The X-Forwarded-For header is tested only if Vrtel was called from a known proxy, as defined in HTFORWD= TCT parameter or in a rule. Only the first one in the X-Forwarded-For header is validated as a known proxy.

6060 ARBO keywords in ENTRY Statement being unloaded in error

The VIRCONF program has been updated to correctly process the ENTRY statement during an UNLOAD request.

6061 Possible memory corruption when RULE is absent

Message VIR0923E NO RELAY AVAILABLE issued. Corruption in the terminal block due to data overlay.

6063 Ruleset not initialized correctly

On startup the LINE ruleset is not initialized correctly. Message VIR0035E is issued for each rule. Corrected.

6065 Possible invalid header in 304 response

Various errors reported, such as 'NO MORE PSEUDO FOUND WITH PREFIX CLLOC'. Expiry header logic amended set correct response value.

6066 Possible ASRA in VIR0010

TIOACHK check routine updated to avoid incorrect overwrite detection.

6067 PF keys only work when pressed twice

Correct bug in ADMIN 3270 panels. In some situations the PF keys had to be pressed twice.

6069 ATTN key fails

Update ATTN processing to correctly return to application.

6071 LPKALIVE memory leak

Error message 'VIR0097E ERROR ALLOCATING MEMORY' reported when using LPKALIVE= feature. Corrected.

6074 Duplicate VIRIC52I message

ICAL processing was erroneously issuing the VIRIC52I message twice.

6077 Improved 404 support in place of “HTTP-EQUIV=’refresh’”

404 response may be received instead of a normal return to the menu when close was the result of a command to the application; for instance LOGOFF under CMS accessed thru TN3270 or cesf logo in CICS.

6078 VSE CSI TCP/IP Telnet3270 support

Telnet3270 does not work when using VSE CSI TCP/IP. All IP addresses are zeroed. Corrected.

6080 VIRTEL IMS - Message VIRIC54E

Message added

6081 Abend during RACINIT processing

Virtel ASRA abend - ICH409I 0C4-010 ABEND DURING RACINIT PROCESSING

6093 USERPARM with Security=5

Correct bug in USERPARM support.

6094 S0C4 when issuing Command

Correct ABENDS0C4 in multi-line command support.

6095 New options for Line command

Add I (INUSE) and E (Extended) options to the Display Line command.

6097 Correct VSE support for IEASYMBP

Fix z/VSE bug in supporting IEASYMBP symbolic function.

3.3 VSR

6062 Upload for VSR stalls

When performing a VSR upload a stall could occurred processing large amounts of data. Data boundary processing updated.

3.4 Scenario Language

6053 IF\$ SCREEN-IS-UNMODIFIED,THEN=FAIL incorrectly returned TRUE

When processing a multi-message screen buffer, a erroneous value of TRUE was being set in certain conditions.

6070 CASE\$ and \$IF testing

CASE\$ and IF\$ tests will consider blanks as an attribute.

3.5 Other Enhancements

6054 Update SMFREXXL Samplib member

- Pass in SMF record type as argument. Defaults to record type 223.
- Correct concatenation operator (||).
- Support both 'B' and 'H' Stat types as defined in Terminal Definition. STATS=56
- Remove spurious blank line at end of EXEC.

6087 Make VIRHTML default value for HTVSAM

Change default value for HTVSAM TCT option.

6090 Add TN3270 external server in ARBOLOAD

ARBOLOAD now supports TN3270 definitions.

6098 SAMPLIB SEC=1 for W2H-00P, CLI-00P & VPX-00P

Correct ABROLOAD definitions.

6099 Make cAppMenu.htm default for CLI-00 transaction

Update CLI-00 definition. Previously it was appmenu.htm

NEW FEATURES

6049 CRYPTS= Encrypt Vrtel and Ajax session codes

A new VIRTCT parameter ..

CRYPTS=AES-256|AES-192|AES-128|NONE

When CRYPTS= is set to NONE, or defaulted, session codes are not encrypted. When CRYPT=AES-... is coded, Vrtel session codes will be encrypted. The length of the session code is now 24 bytes instead of the previous 16 bytes.

6068 TN3270 update

Add TN3270 dialout to access remote Z/VM telnet servers (z/VM, external partners).

6072 User Relay LU nailing

A new LU nailing feature that allocates a Relay terminal/printer based on a USERID. Uses the Vrtel internal tablespace API to extract the userid / terminal association. The Vrtel internace tablespace is built from the VIRCONF statements :- DEPT, USER, PROFILE and RELAY statements. A new ARBOLOAD JCL option has been added to provide a sample configuration - RELAY=YES. This feature requires the TCT USERFUNC=YES to be set.

6075 NFORCEIP= VIRTCT parameter

A new TCT parameter, NFORCEIP=NO will, by default, and will ignore any changes of client IP address. This can occur when using zScaler security server. Specifying NFORCEIP=YES will enforcing that the client IP address should not change. In this instance, the connection will be disconnected.

6085 Update LU Nailing modules

Correct Relay LU Nailing default behavior.

6088 TN3270 definition in SAMPLIB

Sample definitions for TN3270 support

6092 New User Function - Dynamic Relay Table

Vrtel supports a dynamic relay LU table built from ARBO statements. This new function enhances the LU nailing feature. Screens in the Admin 3270 Security option have been updated to support this feature. The change complements changes introduced by change 6072.

UPDATES AND MAINTENANCE

A full list of maintenance updates can be found in Appendix A.

APPENDIX A

Maintenance list

- 6038 Change version
- 6039 Change of name on USSTAB
- 6040 mainframe assembly of VIRHTTP fails due to TAB character
- 6041 S0C4-38 after SNAP
- 6042 Add buttons in the toolbar for TBT WebAccess features
- 6043 \$RESTDSU modifications
- 6044 CLIENTM.JCL delete reference to section PLUG
- 6045 Correction to the order in which customized files are initialized
- 6046 Update STATS DCB to 255
- 6047 Change Virtel Version and remove X'05' from source
- 6048 Update VIRBATAR Samplib member
- 6049 CRYPTS= Encrypt Virtel and Ajax session codes
- 6050 Prevent ABEND S0C4 in VIR0021W when MSG = TEXT
- 6051 VIRT923E ERROR REQ: PTON - RETCODE: FFFFFFFF ERRNO: 00000031 (00000049)
- 6052 Correct MDT Flag reset in VIR0023
- 6053 IF\$ SCREEN-IS-UNMODIFIED,THEN=FAIL may block due to SNA FLAGS
- 6054 Update SMFREXXL Samplib member
- 6055 Color change. Change the CSS names for the NOCOLOR
- 6056 Cookies are lost after exiting the Virtel session
- 6057 SIGNON BOX,CHANGE ERR=9 ET ERR=11 PAR UID/PWD ERROR
- 6058 Update W2H for V4.59 and V4.60
- 6059 Modification to install build JCL job CLIENTD.MODELE
- 6060 No unload of ARBO keyword in ENTRY STMT
- 6061 Possible memory corruption when RULE is absent
- 6062 UPLOAD VSR CHUNK stalls for some big files
- 6063 Ruleset not initialized correctly

- 6064 Correct options button behaviour
- 6065 POSSIBLE INVALID HEADER IN 304 RESPONSE
- 6066 Possible ASRA in VIR0010
- 6067 PF keys only work when pressed twice
- 6068 TN3270 refresh
- 6069 ATTN key fails to return to application
- 6070 CASE\$ testing BLANK on screen
- 6071 LPKALIVE memory leak
- 6072 User Relay and misc. features for V4.62
- 6073 VirtelSession thru http header
- 6074 Duplicate VIRIC52I message
- 6075 NFORCEIP= VIRTCT parameter
- 6076 Update TCT samples. Correct UFILE and MACRF parms
- 6077 404 returned instead of EQUIV REFRESH
- 6078 VSE CSI TCP/IP Telnet3270 support
- 6079 VIR0T11 now the default TCP/IP program under z/VSE
- 6080 VIRTEL IMS - Add Message VIRIC54E
- 6081 Abend during RACINIT processing
- 6082 TN3270 add "relay name" to status bar
- 6083 z/VSE WTO message truncated
- 6084 SVN synchronization for version 462
- 6085 Correct bug in USERFUNC support for LU Nailing modules
- 6086 New samplib z/VSE TCTs in FR & EN
- 6087 SAMPLIB SEC=1 for W2H-00P, CLI-00P & VPX-00P
- 6088 TN3270 definition in SAMPLIB
- 6089 TN3270 section in Installation Support
- 6090 Add TN3270 external server in ARBOLOAD
- 6091 Silence MultiLine messages
- 6092 User Function - New Dynamic Relay Support
- 6093 USERPARM with Security=5
- 6094 S0C4 when issuing Multi-Line Command
- 6095 New options for Line command
- 6096 Virtel VWA 462 update for operation in EDGE in IE11 compatibility mode
- 6097 Correct VSE support for IEASYMBP.
- 6098 SAMPLIB SEC=1 for W2H-00P, CLI-00P & VPX-00P
- 6099 Make cAppMenu.htm default instead of appmenu.htm