Release Notes PN 93000960_H
Digi Wireless Vehicle Bus Adapter
82003264_G EOS (J200)  3.2.25.10
January 3, 2018

INTRODUCTION

The Wireless Vehicle Bus Adapter (WVA) is a basic fleet component
that makes vehicle bus data, in either J1939/CAN or J1587/J1708
form, available via wireless communication. The Adapter is low-cost
and simple to install.  It can be used in a desktop development
environment with a CAN bus simulator, and can be mounted in a
vehicle by plugging into the CAN bus connector.  The WVA acts as
a Wi-Fi Client connecting to a Wi-Fi-enabled Internet-connected
hotspot in the desktop development environment or the vehicle.
It is part of a larger system, including a smart phone, tablet,
or other on-board computer (OBC), where the developer or vehicle
driver can interact with the data provided by the WVA through Wi-Fi.


SUPPORTED PRODUCTS


WVA-J200 Wireless Vehicle Bus Adapter



Firmware Version     J200 3.2.25.10
Release Data        January 3, 2017
Release Version      H
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ENHANCEMENTS



BUG FIXES

    WVA-1740 - Fix WVA KRACK security issue
    Update firmware to fix a security issue with Wi-Fi.
    WPA 2 Security issue (CVE-2017-13077, CVE-2017-13078,
    CVE-2017-13079, CVE-2017-13080, CVE-2017-13081, CVE-2017-13082,
    CVE-2017-13084, CVE-2017-13086, CVE-2017-13087, CVE-2017-13088.)


KNOWN ISSUES

  [WVA-1387] - Wi-Fi Direct Push Button no longer automatically reconnects
            when using Android version 5.x and above, due to a functional
            change made in Android.

DOCUMENTATION ERRATA

None

ADDITIONAL INFORMATION

   OpenSSL/TLS support in the web server is NOW limited to
   TLS v1.2 to avoid "BEAST" OpenSSL vulnerability.

   TLSv1.1 and v1.2 are disabled by default on versions of Android prior
   to 5.0 (http://blog.dev-area.net/2015/08/13/android-4-1-enable-tls-1-1-and-tls-1-2/).
   That blog post, and this StackOverflow answer (http://stackoverflow.com/a/20708800)
   show how to enable TLSv1.2 in your android application.

   The following features are not supported in this release
     - Python access to Digi direct power control

   It is recommended that the configurable CAN bitrate be kept at auto
   under most conditions.  It is known that assigning a static CAN bitrate
   which does not exactly match the rate of the CAN bus can result in
   malfunction of the device and/or CAN bus.


HISTORY
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Firmware Version     J200 3.2.25.9
Firmware Version     J500 3.2.25.9
Release Data         January 16, 2017
Release Version      G
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ENHANCEMENTS

   [WVA-1695] - Add new web services endpoint for J1708/J1587 engine VIN
           at /ws/vehicle/ecus/mid128/VIN; query bus and populate
           endpoint when engine detected.

   [WVA-1697] - Implemented issue detection and recovery in the unlikely
           case that the Wi-Fi module were to stop responding.

   [WVA-1694] - Wi-Fi device driver specific messages are now directed
           to a new, dedicated location: "wifi.log"


BUG FIXES

   [WVA-1689] - Updated Wi-Fi firmware to improve reliability.

   [WVA-1688] - Fixed J1708 transmission issue preventing J1708 requests
           from being serviced.

   [WVA-1661] - Improved reliablity of J1708 and device power controller.

## KNOWN ISSUES

[WVA-1387] - Wi-Fi Direct Push Button no longer automatically reconnects
  when using Android version 5.x and above, due to a functional
  change made in Android.

## DOCUMENTATION ERRATA

None

## ADDITIONAL INFORMATION

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to 5.0 (http://blog.dev-area.net/2015/08/13/android-4-1-enable-tls-1-1-and-tls-1-2/).
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Firmware Version    J200 3.2.25.6
Firmware Version    J500 3.2.25.6
Release Data        July 14, 2016
Release Version     F
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## ENHANCEMENTS

For the convenience of customers using the WVA to gather data
related to Hours of Service (HOS) logging, two new data points
have been added.  These data points prioritize distance reporting
from the engine, from either the J1587 or J1939 bus, and expose it as
TotalDistance_HOS (reporting in km) and TotalDistanceMiles_HOS
(reporting in miles).

WVA-1587 Create new vehicle data points for Vehicle Speed, Total Distance,
and Hi-Res Total Distance that match specific vehicle ECU addresses.
For instance, TotalDistance_0 will capture any Total Distance reading
for J1939 ECU source address 0, whereas TotalDistance_J1587_128 will
capture Total Distance readings generated by MID 128 on the J1587 bus.


## BUG FIXES

None


Firmware Version    J200 3.2.25.2
Firmware Version    J500 3.2.25.3
Release Data        February 24, 2016
Release Version     E
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ENHANCEMENTS

    Support for WVA-J500 hardware is now present.  Due to the
    differences in hardware, the WVA-J200 and WVA-J500 devices have
    unique firmware images.

    Support for the configuration of multiple unique infrastructure
    networks has been added.  Networks can be added to the known list
    via RCI as well as an enhanced web wizard.

    Web Service subscriptions can now be registered against endpoints
    in the /ws/config tree.

    OpenSSL has been updated from version 'm' to version 'p', addressing
    the following vulerabilities:
       - CVE-2015-1788
       - CVE-2015-1789
       - CVE-2015-1790
       - CVE-2015-1791
       - CVE-2015-1792

NOTE:    OpenSSL/TLS support in the web server is NOW limited to
         TLS v1.2 to avoid "BEAST" OpenSSL vulnerability.

         TLSv1.1 and v1.2 are disabled by default on versions of Android prior
         to 5.0 (http://blog.dev-area.net/2015/08/13/android-4-1-enable-tls-1-1-and-tls-1-2/).
         That blog post, and this StackOverflow answer (http://stackoverflow.com/a/20708800)
         show how to enable TLSv1.2 in your android application.


BUG FIXES

    OpenSSL header compression has been disabled to avoid the CRIME
    man-in-the-middle vulnerability.

    OpenSSL/TLS support in the web server is NOW limited to TLS v1.2 to
    avoid "BEAST" OpenSSL vulnerability.

    [WVA-1389] - Change infrastructure network scanning method to prevent
             intermittent outage of WVA access point.

    [WVA-1398] - Fix initial state of DHCP checkbox in Wi-Fi access point
             configuration web page.

[WVA-1344] - Fix HiResTotalDistance on second CAN bus.

[WVA-1393] - Address frozen CAN bus triggered by repeatedly disconnecting
and reconnecting CAN simulator.

[WVA-1391] - Change ECU detection method to address vehicles that do not
respond to standard J1939 address query.

[WVA-1379] - Improve VIN handling by preventing periodic loss of VIN
while updating list of attached vehicle ECUs.

KNOWN ISSUES

[WVA-1387] - Wi-Fi Direct Push Button no longer automatically reconnects
when using Android version 5.x and above, due to a functional
change made in Android.

DOCUMENTATION ERRATA

None.

ADDITIONAL INFORMATION

The following features are not supported in this release
- Python access to Digi direct power control

It is recommended that the configurable CAN bitrate be kept at auto
under most conditions. It is known that assigning a static CAN bitrate
which does not exactly match the rate of the CAN bus can result in
malfunction of the device and/or CAN bus.


Firmware Version    3.2.15.3
Release Data        July 24, 2015
Release Version     D
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ENHANCEMENTS

[WVA-1301] - Allow configuration of time through the Web UI manually or via NTP
[WVA-1302] - Allow loading of custom vehicle data configuration files into device
[WVA-1304] - Allow subscriptions to be set at a minimum of 100ms interval

BUG FIXES

[WVA-1305] - In some cases configured alarms were not enabled
[WVA-1307] - Current DTC detection mechanism does not work if ECU is powered off
[WVA-1377] - Reported Vehicle Speed values can be in error when truck is stopped

KNOWN ISSUES

[WVA-1387] - Wi-Fi Direct Push Button no longer automatically reconnects when using

Android version 5.x and above, due to a functional change made in Android.

DOCUMENTATION ERRATA

None.

ADDITIONAL INFORMATION

The following features are not supported in this release
- Python access to Digi direct power control

It is recommended that the configurable CAN bitrate be kept at auto under most conditions.
It is known that assigning a static CAN bitrate which does not exactly match the rate
of the CAN bus can result in malfunction of the device and/or CAN bus.


Firmware Version  3.2.10.4
Release Data       10/12/2014
Release Version        C
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HIGHLIGHTED PRODUCT CHANGES

Added support for Wi-Fi Direct
Added J1939 Diagnostic Trouble Codes
Add support for execution of custom python scripts
Add support for hardware acceleration information via python script


ENHANCEMENTS

[WVA-765] -   Add support for J1939 Diagnostic Trouble Codes
[WVA-871] -   Extend alarms and subscriptions for so support DTC
[WVA-886] -   Increase number of queued Subscription/Alarm messages to 20,000
[WVA-953] -   Python programmability in WVA
[WVA-954] -   Add CAN statistics to RCI / Web Services
[WVA-1078] -  Add support for hardware acceleration information via python script
[WVA-1174] -  Add support for WiFi direct settings via python script

BUG FIXES

[WVA-717] - LED text in web UI
When configuring the WVA to work with a new AP, after hitting save a message pops up that states the following.
"Examine the LEDs to determine whether the device successfully connects to the wireless network".
The WVA does not have an LED to indicate network connection so this text was removed.

[WVA-959] - web services returning wrong response when using JSON for canbus statistics

[WVA-963] - Web services returns lists with incorrect top level element name

[WVA-972] - WVA occasionally stops detecting J1587 messages

KNOWN ISSUES

　　None.

DOCUMENTATION ERRATA

　　None.

ADDITIONAL INFORMATION

　　The following features are not supported in this release
　　 - Python access to digi direct power control

　　It is recommended that the configurable CAN bitrate be kept at auto under most conditions.
　　It is known that assigning a static CAN bitrate which does not exactly match the rate
　　of the CAN bus can result in malfunction of the device and/or CAN bus.

Firmware Version   3.2.8.4
Release Data　　　7/29/2014
Release Version　　　　C1P (Beta Release)
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HIGHLIGHTED PRODUCT CHANGES

　　Added J1939 Diagnostic Code support
　　Python programmability

ENHANCEMENTS

　[WVA-765] - Expose J1939 Diagnostic Codes via Web Services
　[WVA-913] - Add CAN statistics to Web UI
　[WVA-954] - Add CAN statistics Web Services
　[WVA-886] - Increase number of queued Subscription/Alarm messages to 20,000
　　[WVA-953] - Python programmability

BUG FIXES

　　[WVA-717] - LED text in web UI was removed

KNOWN ISSUES

　　None.

DOCUMENTATION ERRATA

　　None.

ADDITIONAL INFORMATION

The following features are not supported in this release
 - Accelerometer
 - Python access to digi direct power control

It is recommended that the configurable CAN bitrate be kept at auto under most conditions.
It is known that assigning a static CAN bitrate which does not exactly match the rate
of the CAN bus can result in malfunction of the device and/or CAN bus.




Firmware Version   3.2.1.34
Relesae Date        4/16/2014
Release Verson           Rev B
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HIGHLIGHTED PRODUCT CHANGES

    Remove SSL HeartBeat extension from openssl library (HeartBleed workaround for openssl CVE-2014-0160)

ENHANCEMENTS

    None.

BUG FIXES

    [DBL-624] - Update OpenSSL to resolve the 'heartbleed' vulnerability


KNOWN ISSUES

    None.

DOCUMENTATION ERRATA

  None.


ADDITIONAL INFORMATION

    The following features are not supported in this release
     - Accelerometer
     - USB support

    It is recommended that the configurable CAN bitrate be kept at auto under most conditions.
    It is known that assigning a static CAN bitrate which does not exactly match the rate
    of the CAN bus can result in malfunction of the device and/or CAN bus.



Firmware Version 3.2.1.33
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HIGHLIGHTED PRODUCT CHANGES

Initial Release

ENHANCEMENTS

None.

BUG FIXES

None.


KNOWN ISSUES

None.

DOCUMENTATION ERRATA

None.


ADDITIONAL INFORMATION

The following features are not supported in this release
 - Accelerometer
 - USB support

It is recommended that the configurable CAN bitrate be kept at auto under most conditions.
It is known that assigning a static CAN bitrate which does not exactly match the rate
of the CAN bus can result in malfunction of the device and/or CAN bus.




Firmware Version 3.1.2.5
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HIGHLIGHTED PRODUCT CHANGES

Pilot Release

ENHANCEMENTS

None.

BUG FIXES

None.

KNOWN ISSUES

Wi-Fi Access point for configuration only.

## DOCUMENTATION ERRATA

None.


## ADDITIONAL INFORMATION

The following features are not available in this pilot release
- J1708
- USB support
- Accelerometer
- Final security polices