STW's Connectivity Solution for Mobile Equipment: The Vehicle Data System (VDS) and VDS-Remote (VDS-R)



STW's Vehicle Data System (VDS)



- Integrated hardware and software telematics architecture to enable flexible access to vehicle data
- Web-based configuration, monitoring and logging
- Out-of-the-box functionality for rapid implementation
- Powerful toolset for user applications or customization
- Multiple networking options Local and Remote Modes!
- Real-time monitoring or event-based logging
- Perfect as a front-end for OEM- or fleet-customized back-end solutions
- Designed for difficult, demanding environments

VDS Hardware Architecture



- Full stand-alone Telematics: ESX-TC3G
 - Local networking: Ethernet, CAN, USB, RS232 PLUS
 - GPS, GSM/CDMA, WLAN or Bluetooth with internal or external antennas
 - 400 MHz Processor with Linux and 1 GB flash
- Controller Networking Eb07 Babyboard for ESX-3XL
 - Same as the ESX-TC3G without the modems/antennas
 - Accessible directly from the controller with CoDeSys or C functions





Two Ways to Access Vehicle Data



VDS Local

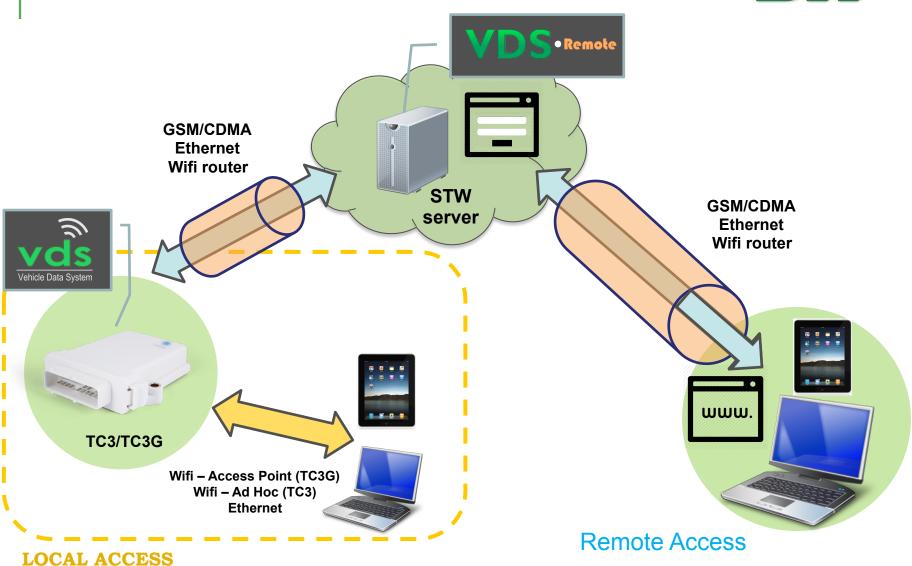
- Wireless host access at the TC3 or TC3G
- TC3 or TC3G is a wireless client to a wifi router
- Any web browser capable device (tablet, PC, phone, etc.) can access
- Traffic does NOT go through a server! No cellular data plan required

VDS Remote

- TC3 or TC3G is accessed through a server
- Same functionality as local except for addition of Administration functions
- Requires a cellular connection unless the TC3G or TC3 is connected to the Internet locally

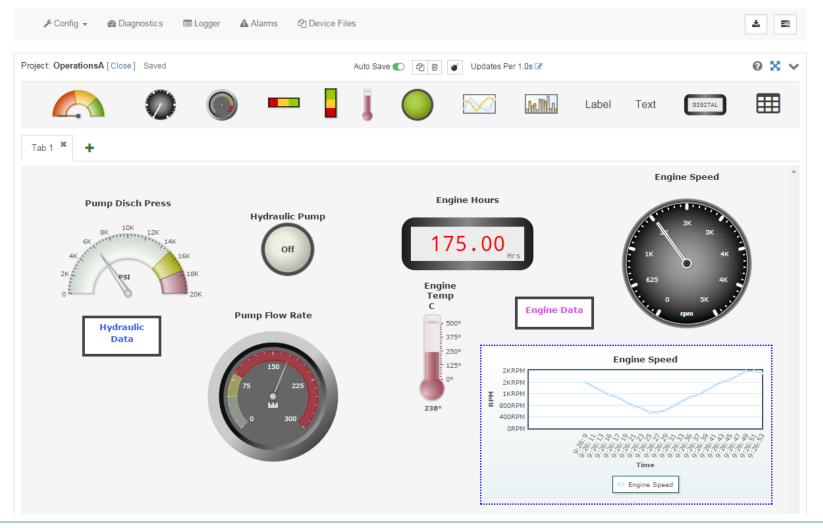
VDS Network Connectivity





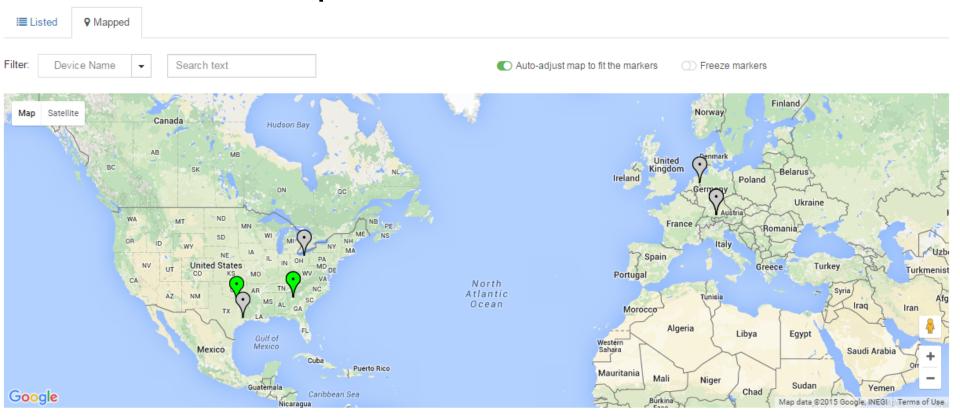
Diagnostics 'projects' are simple to create and configure and provide unlimited views of real-time data with a wide variety of visualization graphics





Asset location is displayed along with basic information about the machine on Google maps. Devices can be accessed via the map or from a list.





Logs can be generated for any number of variables and with a wide variety of parameters. On-change and eventtriggered logs allow memory and bandwidth resources to be conserved.



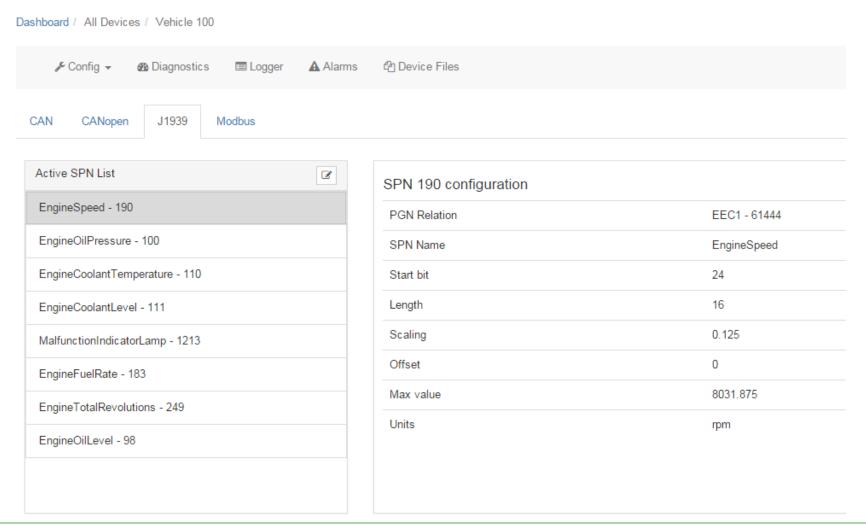
Dashboard / All Devices / Vehicle 100 Diagnostics Logger A Alarms ♣ Device Files Log Job List LoggerJob configuration LoggerJob Selected variables Timestamp OFF **EngineOilPress** 1000000 Max file size (bytes) EngineTemp **EXCEL TAB** File format HydPumpOn /mnt/dataflash/logger Result file path EngineTempAlarm 2 Log duration (minutes) Compression OFF INTERVAL Log type 500 Log rate(ms) 0 Window log time (sec)

Save to Device

xdelete

Data readers are used to access data on the vehicle's CAN bus. Configuring them is easy and fast, but with full flexibility.

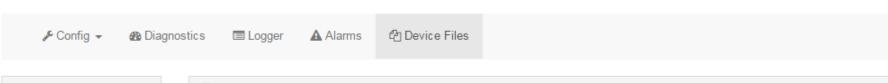




Logs, configuration files, logos and software updates can all be uploaded or downloaded through the Device Files page.



Dashboard / All Devices / Vehicle 100

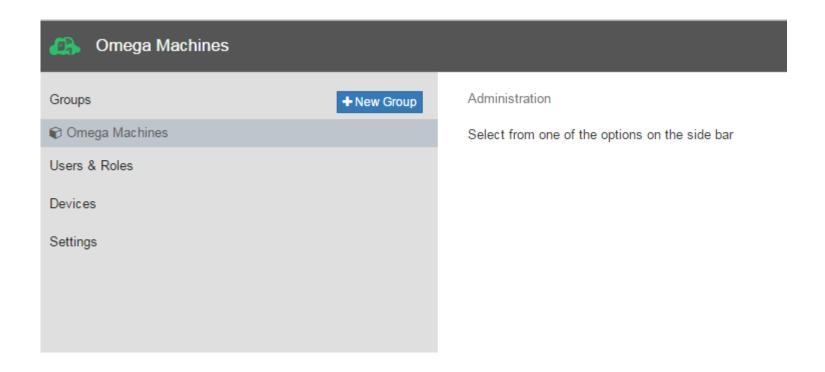


File list
LoggerFiles
CANopenFiles
DBC Files
AppLogs
HexFiles
DiagProjects
ReaderConfigs
VDSLogo

Select All		
File Name	Size	Timestamp
LoggerJob_20150716130304_20150716130505.dlf	3.4 kB	Thu Jul 16 13:05:05 2015
LoggerJob_20150716130505_20150716130706.dlf	3.4 kB	Thu Jul 16 13:07:06 2015
LoggerJob_20150716130706_20150716130907.dlf	3.4 kB	Thu Jul 16 13:09:07 2015
LoggerJob_20150716130907_20150716131108.dlf	3.4 kB	Thu Jul 16 13:11:08 2015
LoggerJob_20150716131108_20150716131309.dlf	3.4 kB	Thu Jul 16 13:13:09 2015
LoggerJob_20150716131309_20150716131510.dlf	3.4 kB	Thu Jul 16 13:15:10 2015
LoggerJob_20150716131510_20150716131711.dlf	3.4 kB	Thu Jul 16 13:17:11 2015
LoggerJob_20150716131711_20150716131912.dlf	3.4 kB	Thu Jul 16 13:19:12 2015
□ LL-b 204E074C424042 204E074C422442 #K	2.41-0	Th I 40 40-04-40 004F
	① Upload ① download	≭ delete

Administration of VDS-R is incredibly flexible and allows the definition of groups, companies, users, roles, devices and settings.





Users are assigned a role and may belong to multiple groups and devices.





Users

Roles

Role Permissions



Users					
Name 💠	Email 🕏	Roles Assigned	Groups Assigned	Edit	Delete
John Doe	john@doe.com	Field Test Change	Omega Machines Change	Ø	×
Leo Messi	leo@messi.com	Operations Change	Omega Machines Change	Ø	×

Roles determine what functions a user may perform on a very granular level

Administration / Users



Users Roles	Role Permissions			
Osers Roles	Role Pellilissions			
Permissions		Field Test	Operations	Test
general				
access admin page				
groups				
create group		0		
edit group				
delete group				
devices				
create device				
edit device				
delete device				
change device id				
device apps				
start apps		♂		
stop apps		∀		
device configuration				
edit system info				
view system info				
edit data readers				
view data readers				

Questions?



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