

## Hercules Release 4.0.1

Feature Changes from 3.5.2

Computer Software / Hardware requirements:

- Operating System: Windows XP or WIN2000 with the latest Service packs and patches.
- Memory: A minimum of 256 MB.
- Available Hard drive space: 1 GB.
- CPU speed: 533 MHz.

Feature Enhancements:

- Support added for LIN 2.0 to emulate LIN nodes from the LDF.
- Protocol differentiation between LIN 1.3 and LIN 2.0.
- LIN 2.0 LDF import is supported.
- Support added for the Gryphon I/O card to read digital inputs (Pin #1 and Pin #2).
- Added under the File Menu a "New" selection which creates a New configuration (\*.her file) without any parameters carried over from an existing file. The default path for configuration has been changed from MyDocuments to C:\Program Files\Hercules.
- Online support for Diagnostic service setup.
- Data Identifiers (DIDs) are updated with respect to GMW 3110 version 1.5.
- Online support for the grid / no grid option for scrolling monitor.

Related Firmware Release Issues:

- Hercules 4.0.1 **must** be used with Firmware version 20041216 (or later) with all patches. The Firmware version can be seen in the About Hercules screen under Help. Current firmware requires patches A, B, & C.
- Fixed Channel 2 of module SJA1000 SW transmitting a wake up frame as a normal frame.
- Fixed problem where Gryphon hardware locks up and broken pipe is displayed- schedulers not being killed.
- GMLAN return to normal mode Service \$20, launched on one channel should only apply to that channel.

## Hercules Issues Fixed

### Database:

- New entries into the comment field of non-diagnostic frames are saved along with other parameters of the frame.
- "Diag. Frame" option from the "Database" menu is disabled while tool is in Online mode.
- "Create New Database" option from the "Database" menu is disabled while tool is in Online mode.

**Diagnostics:**

- Fixed typo error in setup dialog for adding / editing the physical frame ID, and similarly typo errors have been fixed.
- Fixed display of multiple instances of the “Advanced Display Window” upon multiple clicks to “Display” button in diagnostic display window.
- Diagnostic view will display consecutive frames even though previous frame had 0x7F as second byte data. Hercules was acting if the 0x7F data was a negative response and terminating the USDT transaction.
- Incorrect messages related to USDT registration have been removed. Non-CAN (USDT) Diagnostics caused an incorrect message in Information View.
- Persistence of inputs for PID 1, 2 and 3 of service 0x02 is provided.
- Parameter identifier buffer loading issue for service 0x22 has been addressed.
- Persistence for the selection of the “Send Tester Present” option in all supported service setup dialogs has been provided.

**General Issues:**

- Flickering issue in signal monitor has been resolved.
- Interval value for a periodic message is updated in the database.
- Information view displays the SWCAN high-to-low and low-to-high information properly.
- For a J1850-3H PWM frame in TFT, the maximum data length is restricted to 7.
- Delay in displaying error message when Hercules is not configured or not able to detect the hardware is eliminated to improve the performance.
- Removed flickering of first two lines in Scrolling Monitor when window has more than 20 lines.
- Message: “Channel is not found” or “Module may be faulty” issues have been resolved.
- Time taken to save a J1850-3H VPW secondary ID has been reduced to improve performance.
- Signal monitor data is saved to the HER file even though signal monitor window is not open.

**Crash Issues:**

- Crash during the merge database has been resolved.
- Crash while going offline after monitoring high bus traffic for long period of time has been fixed.
- Opening an edited Offline buffer file causes Hercules to crash has been resolved.
- Crash when selecting different services in diagnostic setup dialog after editing the invalid data in service 0x22 is fixed.

**Release Issues:**

Issue	Solution
On a Dual Channel VPW J1850 card (DLC type) if the second channel is wire to the network and enabled it will not auto jump to X4 mode.	In Information View Error messages will appear, but it will not interrupt the Jump to X4 mode. We suggest not enabling the second channel.
DCX card VPWM 1 Byte IFRs do not work.	None at this time.
ISO diagnostic service \$2C in setup diagnostics dialog is not displaying data for sub-parameters.	None at this time.
Map Channels feature is not working for J1939 frames in Offline Buffer View.	None at this time.
Frame Responder Delay field is inaccurate, "Delay (ms)" field values it can be off by 10 percent.	None at this time.
For J1850 VPW Save Diagnostic View as .txt file does not display any ASCII interpretations.	None at this time.
When using Hercules with a LIN card the message counts (Tx/Rx) are displayed, but no percent bus loading is shown.	None at this time.
On a Dual Channel CAN card, when Transmit (TX) on Channel 2, an Receive (RX) is seen on channel 1 before the TX on channel 2.	None at this time.
Unlike CAN, J1850 VPWM messages with bad CRC's appear in scrolling monitor. They cannot be distinguished from good/normal messages. When the offline buffer file is saved and then played back a Bad CRC message may be transmitted as Good message.	None at this time.
Playback of messages count is updated very slowly. On a receiving unit using Hercules, the count of message is far higher than on the Playback unit's counter.	None at this time.
SWCAN 29 bit DBC file import is not proper for source ID and priority.	None at this time. Scheduled for the 4.1 Release.
Updating of DTCs based on the latest DTC list into DGDIAGINPUT.INI was not done.	None at this time. Scheduled for the 4.1 Release.
Filters are not working for LIN protocol channels	None at this time.
Master node detection is spurious when LDF file is selected for emulation purposes.	None at this time.
LDF file import does not append the LDF file version in the imported file name.	Specify identifiable name in the "Save As" dialog box when importing the LDF file.
LDF File is not importing properly.	Comments per each line in the LDF file shall have a maximum of 80 characters (At this point of time). LDF file shall have node attribute section. Space shall not be there after MasterReq and MasterResp diagnostic frames.
Service \$12 problem: Scrolling Monitor displays message ID 643 first, followed by Message ID 243 second. However, in Diagnostic View the order of these two messages is reversed.	None at this time
Service \$22 Problem: Decoding of 2 byte PIDs information in diagnostic view.	None at this time.