

## **GEN 4.2 Feature Updates**

**Here's a complete summary for GEN 4.2 T&I testing. All Tasks should be on JIRA.**

**Planned GEN 4.2 SW/FW Release:**

**CIM Release: v4.9.0**

**Inverter Release v4.8.0**

**Icon Release v2.98.0.0**

### **GEN 4.2 Description of changes**

**New Registers found on IEs Drive Parameters.xlsx in Software - Library\Drive Software Development**

**2014 AI1 Fail Over Stop - Response to loss of Analog signal below AI1 Open Max (2010) if "Parameter 2011 set at or above 100 RPM" and AI1 Open MAX set above 0.0%**

**0 = Go to Analog Fail Over Speed**

**1 = Stop Motor**

**2015 AI1 Fail Over Timeout - Time in seconds to detect loss of Analog signal if "Parameter 2011 set at or above 100 RPM" and AI1 Open MAX set above 0.0%**

**0-120 seconds**

**3005 Input RMS Current - Estimate of fan drive Input RMS VFD/Motor system Current (A).**

**3006 Input RMS Voltage - Estimate of fan Input RMS Voltage (VAC).**

**8610 RTU Stop Bits - Modbus RTU stop bit(s) (reconfigures Modbus RS485 communication for one or two stop bits)**

**0 = 1 Stop Bit**

**1 = 2 Stop Bits**

**New Options to already existing registers found on IEs Drive Parameters.xlsx in Software - Library\Drive Software Development:**

**1210 Speed Override Input Source:**

**6 = DI1 and Start**

**2101 DI1 Function:**

**7 = Speed Override and Stop**

**Daikin Requirement for DI1 and Start (Functionality already verified at Daikin)**

**speed override input source 1210**

**0 = Modbus**

**1 = DI1**

**2 = DI2**

**3 = DI3**

**4 = DI4**

**5 = AI1**

**6 = DI1 & start motor**

### **1210 Option 6 definition**

**Low -> High**

**Start Motor and go to override speed**

**Will still accept new start/stop and speed Modbus commands from controller**

**High -> Low**

**Return to current (analog/digital/Modbus) current speed and start/stop state and accept new Modbus commands while in this state**

### **BACnet Object Types**

**-Updated by Leo**

**Freeze Frame Data: 6001- Registers (6001-6740) with previous 10 faults information**

**-Added to Save State and Statistics Button on latest Icon v2.96.906.0**

**-Saves Fault Words 1-10 in Save State CSV File between Line 43-221**

**-Also creates Statistics File that includes .hex file (Customer Version) and CSV and hex file on the Internal Icon Version**

**-Hex File Parser is located here: Software - Library\REPO-Released(Moved-Old)\Software\HexFileParser**

**-When running, it simply select the hex file and it will output the csv file to the same folder.**

**Icon v2.96.905.0: Clone and Recovery**

**-Creates a FSF\_Recovery Text File if firmware update fails or loses connection during the update (asks user for folder location to save it)**

**-Creates a FSF\_Clone Text File when clicking FSF Clone Button on Internal Icon with the password (redmotor24) entered (also asks user for folder location to save it)**

Select Files to Upload

Individual Files may be left blank. Only those specified will be uploaded

Inverter Binary

CIM Binary

Factory Setting

100

UPLOAD

DISCONNECT

SEARCH

START

IP Address: 172.17.20.100

Active CIM: 4.7.00013

Active Model: 402

Active Type: 5008

Active INV: 4.6.00009

Active FSF Rev: 14

Status

Please select a valid location to save the FSF Clone File...

RESET INVERTER

SAVE/RESET CIM

FSF Compare

Password

\*\*\*\*\*

Clone FSF

Reset/Init Runtime

Active Serial Number:

0123BOX456789

New Serial Number

Program Serial #

**FSF Clone and Recovery saves customer configuration, serial number, and FSF into a Text File that can be loaded using FSF load on Icon.**

**After loading the FSF Recovery or Clone Files, power cycle the motor, so the motor initializes with all the correct motor parameter settings.**