

JTL FIRMWARE VARIATIONS		UAPI
VERSION	DESCRIPTION	DATE
v0.00.0	Development release.	Mar 2012
v0.00.1	Open & shut circuit sensor fault information add. Processor TRAP fault operation changed intermediate and low temperatures added. Items 133-135 no longer dependent on network initiated defrost.	May 2012
v0.00.2	ADC readings added items 560-568 PREDICT 3 volatility calculations amended to allow higher volatility conditions and time between defrosts beyond 64 hours. Password of the day uses daylight time. Minor adjustment to graph interpolation routine. Network plant fault function enhanced to operate with real time defrost strategy. Defrost timer initialisation amended for shut down and fans only operation. PEV pulse width modulation code improved. Air off sensor 1 alarm no longer set on faulty sensor. Item 134 extended to enable network plant fault to inhibit defrost as well as refrigeration.	Aug 2012
v0.00.3	Lighting override input removed.	Aug 2012
v0.00.4	Termination temperature operation errors corrected. Now depends on HGD/well operation (item 500) not being selected.	Sept 2012
v0.00.5	Trim heater output enabled.	Sept 2012
v0.00.6	Transcritical CO2 operation added Transducer zero offset range increased to +/- 15 psi. Disable temperature warning multicast added. Parameter updated only set when there is a definite change of data. Comms protocol level raised to 5 Standard log data items 930 to 946 added. Comms data for air sensor HGD cabinet error corrected. Error introduced in v0.00.4. Mu dependencies corrected for items 550-553. Multicast error for pack groups 1-8 corrected. Multicast error for HGD cabinet corrected.	June 2013
v0.00.7	R407F refrigerant added for chilled temperatures. Parameter range error corrected for chilled transcritical CO2 cabinets.	July 2013
v0.00.8	Pic identification and version no added. Trim heater error in network and non-trading selection corrected. Load shedding control added on item 600-607 with status on 609. Global plant data broadcast added. Zone number broadcast added. Alarm temperature uses primary set point when on load shedding set point. Control of fans on inhibit defrost corrected. Mode status setting corrected for unit shutdown and fans only conditions. Lights off text corrected on MU. No of logs error corrected. Fan control during defrost extended to include cycling on termination temperature. Fan control after defrost added to include cycling and termination temperature with time override using item 153. Flag bit display graphic type added. Liquid valve drives display "square". Display symbol memory initialized on power up. Display back light control added. Trim heater load shedding % added on item 396	Apr 2014
v0.00.9	Error in calculation of superheat when transcritical CO2 selected corrected.	July 2014
v0.01.0	Defrost time data suppressed on MU and communications when data is invalid. Time shutdown facility added using items 238 & 239	Oct 2014

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v0.01.1	Start address for PROM check sum redefined. Phoenix processor software version added on 947. End address for PROM checksum corrected. Phoenix processor ident added on 948. Phoenix emulation added.	Feb 2015
v0.01.2	Signed binary word data type with application subroutine call added. Latest polling time uses this new data type. Phoenix memory initialisation code corrected. Special cases added for initial power up (1 st minute) in both Phoenix and non Phoenix modes. Call to write to NVRAM added on default write of unit nos and factory settings. Unsafe data timer initial value extended to 120 sec. Broadcast pressure received on item 81. Dependency on item 155 changed to pressure reading ok. R407F enabled for frozen temperatures. Disable local transducer added. Broadcast local pressure timeout added. Pressure reading ok replaces pressure transducer ok on fault operation. Phoenix build no added on item 929. Current superheat measurement method shown on 197. Current superheat control strategy shown are in 279. Temperature difference items such as superheat, deadband, etc display on MU in Fahrenheit corrected. Subtype number switching changed to operate on current superheat control strategy. Start of time moved to Jan 1 st 2012	June 2015
v0.01.3	Lights off broadcast control.	July 2015
v0.01.4	Pressure logging dependency corrected for broadcast pressure.	July 2015
v0.01.5	Fan run during defrost added to item108. Dependencies changed on items 112, 162 and 186 to suppress them when not used.	Aug 2015
v0.01.6	Refrigerants R290, R407C, R448A and R449A added.	Aug 2015
v0.01.7	Broadcast pressure readings can be disabled. A second suction line broadcast added which is selectable for the appropriate evaporator use. This function supports multicast operation associated with particular plant. Pressure transducer fault depends on PT control selected. Unused lighting override removed. Unused manual lights on/off function removed. Correction for lights off multicast associated with second unit number option for HGD use. Note setting the HGD unit no overcomes this problem with previous versions.	Dec 2015
v0.01.8	Phoenix 4 operation. Base 32 encoding enabled.	Aug 2017
v0.01.9	Trim heater calculations amended to include rounding. Errors in R448A dew figures corrected. High pressure shutdown offset error adjusted. Item 279 no longer settable. Evaporator temperature equalisation shutdown added, selected on item 198. Pressure and temperature shutdown events added. Saturated liquid temperature added on item 259. Time since last awake message added on item 260. HGD subtype error corrected. Item 411 range corrected.	Jan 2019