

Comp@s Changelog

Note: Only revisions with a SOFT 000031 XX code were released in production. The other versions were distributed to customers for upgrade when necessary.

Legend:

+	A d d e d	f e a t u r e
*	I m p r o v e d / c h a n g e d	f e a t u r e
-	B u g	f i x e d
!	K n o w n	i s s u e / m i s s i n g
		f e a t u r e

Revision 2.11.0.4 (24/07/2014) - SOFT 000031 47

- Event name was not correct for alarm related events. 'Alarm Clear/Set/Ack :' was missing - Bug introduced in 2.9.0.3.

- The fix introduced in 2.9.0.3 about event memory leak had broken the correct behavior of the event_flat.xml log cleaner.

* Bootloader - Improved 'Upgrade All' Bootloading reliability. (The sequence could get stuck with a race condition on the node reset)

* Bootloader - Improved Can Bootloading reliability on old hardware without interrupt line for the can driver

* Bootloader - No need to reboot after Cordex Rectifier Upgrade

+ New alarm 'Running CAN Firmware Upgrade' (AL5) at site level during any CAN Bootloading

+ New events are generated with information about the bootloading start and stop.

+ New description 'CPU Info' (DE93) at site level to help support in case of investigation

Revision 2.10.0.3 (16/07/2014) - SOFT 000031 46

* Removed unused alarms for 300W rectifier

* Edit mode is not anymore accessible for rectifier and inverter equipment (Because change is not saved)

Revision 2.9.0.3 (11/07/2014) - SOFT 000031 45

- Memory - Fixed small memory leak critical for systems generating many events (>5000/day)

* Emulator - Each emulator option store now 'flash files' in a subfolder corresponding to emulation id

* Emulator - Possibility to define the FlashPath for integration and unit testing

Revision 2.8.0.5 (26/06/2014) - SOFT 000031 44

* Data records - Memory Usage optimisation, some records vector could be duplicated

* Data records - Support for disabling data record enabled by default, and check for some critical records

- Web Interface - Elements Entries under development, with license 'underdev' where shown in the interface since version 2.X (but not usable)

- XML Event Posting - Fixed memory leak if XML POST is configured to inexistent server for a long period of time, with a small timeout

- Data Records - Sometimes, the tooltip displaying the value on mouse over did not disappear when mouse was removed.

+ Data Records - Support of Zoom in/out and span in charts.

+ Data Records - Start/Stop Auto Refresh of the charts.(to allow zooming)

- Site Alarm 'XML Heartbeat Post Failure' was not working as expected.

- Email Support - Automated mail was sending too many emails

+ Web Interface - Waiting popup is now shown for long operations (Save Configuration, Upload file, Send mail, etc). It avoids clicking somewhere else when request is not complete.

* Bootloader - Support of 'Upgrade All Compatible' with file format with comments like 'SOFT_0000YY_XX_some_comments.txt'

+ Support - New zip file 'diagnostics.zip' can be generated on the fly for investigation by Alpha Technologies SA in case of issue. (Available in Files menu)

- Web Server - 'ContentEncoding: gzip' was sent in header when downloading .xml.zip files. This was an error. (Fix issue with IE, it was ok with firefox and Chrome)

* File Manager - Displaying now 'Write Time' instead of 'Creation Time'.

* Debug - Internal generic object counters allows to detect possible memory leaks at runtime.

- Memory - Fixed memory leak when equipments are powered and unpowered many times a day, like with alternative energy sources. (Could slow down or event reboot the Comp@s after a few weeks)

Revision 2.7.0.5 (13/06/2014) - SOFT 000031 43

- CAN Bus - New Alarm 'CAN Bus Addressing Error' was too sensitive (race condition).

* Dashboard - Data records shown for Cordex 4kW and 2.4kW Systems

Revision 2.7.0.4 (11/06/2014) - SOFT 000031 42

+ Email Support - On event with a configured minimal severity, summary mail can be sent to multiple recipients. (need 'asset' License)

+ CAN Bus - New alarm 'CAN Bus Addressing Error'. This helps detecting configuration problems. The alarm will disappear only if you remove all the node that are related to the duplication. (See inventory to know which one is duplicated)

+ Controller Upgrade - Support of zip file upgrade, with possible MD5 Checksum validation (if file compas.exe.md5 available in zip.)

+ Debug - All the debug files can be retrieved in one text file (for issue investigation)

- Webpage - DC System - Dashboard diagram box was too big with Chrome Browser

Revision 2.6.0.5 (17/04/2014) - SOFT 000031 41

+ Alarms - Acknowledgement feature. Each alarm can be acknowledged. This will allow smart filtering in Arm@da between new alarms and managed alarms.

+ Alarms - Acknowledgement feature - Generation of events on ack/unack of an alarm (type= alarm ack / alarm unack).

* Web UI : Alarms/Events - Long event names are now split in multiple lines

- Delta Data Record : solved bug in XML generation (Wrong write format used for RAM records)

- PLC equation with @(alarmXX) on relay boolean condition was broken on ADIO10

* Web UI: Solved top menu Drop Down issue with Internet Explorer 9

- Web UI: Alarms/Events - Event name button link was always referring to site level instead of the right equipment

* API - ProcessXml.cgi : if clear/set delay, relay, severirty_level/type is not defined, the default value is not reset anymore. Only the sent attributes are updated.

Revision 2.5.0.3 (9/04/2014) - SOFT 000031 40

- Web UI - CSS: with some webpage width smaller than 980px but larger than mobile version, some menu was hidden.

- Web UI - javascript: Solved possible race condition on initial load

- Web Server Socket - Under some very rare race conditions, socket could reply twice with the same response to different requests

Revision 2.4.0.3 (4/04/2014) - SOFT 000031 39

- 1-Wire humidity sensor: under some rare circumstance, corrupted value could be read - timing issue solved.

* Data Record - Delta record is now immediatly available after configuration change. Previously, a least one append to file was required

+ PLC - support of equations with strings. Example to link dc system realys with inverter system 1, to define in the alternate condition: `@(es1_invs1_severity_type)="major" || @(es1_invs1_severity_type)="critical"`

- CanOpen - Inventory - LSS CAN id range configuration was broken, required to mix T2S with CAR systems (Mixing static and dynamic CanOpen adressing)

* Inverter System: Improvement of the group and subgroup strings to have a more user friendly user interface. It is needed to reset default Name/Groups/Subgroups if there is already a saved configuration.

Revision 2.3.0.3 (31/03/2014) - SOFT 000031 38

* Improved Speed of Can Node type detection

+ SNMP - Possibility to modify the trap content, by sending additional site description.

+ SNMP - Developpers have the possibility to link data to alarms, to send them with the trap.

+ SNMP - Some data MIb entries described as Integer32 were transmitted as OctetString

+ TCP/Ip - New configuration element allows to define the Maximum Transmission Unit (MTU)

Revision 2.2.0.3 (12/03/2014) - SOFT 000031 37

- Web server redirection could loop if the default web page was forced to blank.

- Logout page link was pointing to old version of webpage

+ Support of Data Record on PLC Data

+ Support of `$iif(condition, val if true, val if false)` and `$case(condition, val, condition2, val2, ...)` functions in PLC equations

+ Dashboard support multiple dc systems

* Summary renamed to Reports

* Site --> in tab view, 'All' selection will also select the Description, Data, Alarm, Config and Control to understand the concept easily

- Renaming tool in the web interface was buggy because the page was self-refreshing while editing

* Schneider PM9C and IEM3150 RS485-devices are now seen as Energy Meter in the ETSI structure

* SNMP - Get of site data date and time was returning empty value. (Datetime format was not correctly supported)

- XML Post - Seconds between two XML Post was not correctly handled

* Better Factory Testing support for UCC (RS485 and RS232 are now automatically tested)

* When saving configuration, old element ids of live equipment are removed, this allows to clean if another type of ADIO has been installed, with different features

* New Control element 'Clean and Save XML User Configuration' allows to remove from configuration information about devices that are not present anymore.

Revision 2.1.0.3 (25/02/2014)

* Improved can drivers

* Minor changes

* Refactoring code for future improvements

Revision 2.0.0.3 (19/02/2014)

* FIRST RELEASE OF COMPAS '2.0.' - SUBJECT TO MINOR CHANGES

* New web interface - for old, go to index_old.html

* Major CPU and Memory Usage Optimisation

* Group and Subgroup allows filtering

* Support of SP0155/01 and SP0155/02

* Many other new features

Revision 0.126.0.4 (3/09/2013)

* Emulation - added configuration 54, UCC + 15 x Adio7

Revision 0.126.0.3 (23/08/2013) - SOFT 000031 36

* Sensors and Actuators - SAM0948 - Added hysteresis parameter on some alarms related to temperature, humidity and tilt

- CAN Driver is now compatible (was broken for 1 year) with first generation of compas board (blue card)

+ DC System - Support of scheduled battery test (based on CRON rules)

+ Support of wizards (first used to help defining the cron rule)

* Site: Drop-box for the configuration of the Time Zone

* XML Posting - Possibility to select which table must be sent on event. (description, alarm, data, configuration, control)

* ADIO - Support up to 16 ADIO board as sensors and actuators by default

Revision 0.125.0.3 (5/08/2013) - SOFT 000031 35

+ Remote Power Feeding: Support of new Module 60W/190V

- Set/Clear delays of alarms were divided by factor 2 because the alarm calculation was called twice.

Revision 0.124.0.3 (28/06/2013)

+ Allow to set MCU specific configuration id. (Done in production, but allow to change in case of misconfigured MCU)

Revision 0.123.0.4 (13/06/2013) - SOFT 000031 34

* Table documentation generator for T2s (Inverter), Cordex Rectifiers and Cordex Dc System

Revision 0.123.0.3 (30/05/2013)

+ Remote Power Feeding : Support of new Module REC009

* XML Events and Armada: Alarm table was not sent completely. Real time for alarm clear events is now ok.

* XML Events and Armada: Alarms are now correctly cleared for CAR rectifier, and sent also in realtime

* XML Events and Armada: After equipment creation, data sync is done for descriptions, alarms, data, events and configs

- Rack ACE102FALP - Module position issue with 2-slot distribution.

Revision 0.122.0.3 (9/04/2013) - SOFT 000031 33

- SNMP - Walk was not going anymore inside the dc system. Broken in 0.113.0.3

* SNMP - GlobalAlarmSeverityLevel of each equipment is now sent as an Integer (OctetString previously)

* SNMP - renamed Mitra to Atsa in Mib due to company name change.

* SNMP - Get next will now work from base oid iso.org.dod.internet

* SNMP - New oid entry 'xxxxGlobalAlarmSeverityTypeInt' for each equipment level. It is the same as the 'xxxxGlobalAlarmSeverityType' but as an integer (critical=4, major=3, minor=2, warning=1, none=0)

Revision 0.121.0.3 (21/03/2013) - SOFT 000031 32

+ Remote Power Feeding: Support of new 120W remote module.

- Cordex DC System: Solved transient dc mode changed to safe mode (bug introduced in 0.120.0.3)

Revision 0.120.0.3 (8/03/2013) - SOFT 000031 31

* Cordex DC-System : Check that the voltage measurement has been refreshed recently, before regulating bus voltage.

* Cordex DC-System : Improved bus voltage regulation - reduce possible 100mV oscillation with ADIO10

* Inverter System - Optimisation of the bandwidth usage to allow more inverter systems (up to 20 T2S - More should be possible after validation)

* Inverter System - The system id is now saved with the CAN LSS information - allows to keep the same system order after a reboot

* Inverter System - Added a 1 minute delay before creating the inverters to avoid id transient.

Revision 0.119.0.3 (19/02/2013) - SOFT 000031 30

- Fix bug : element change event where not added to the correct equipment.

* Optimised version of the XML posting to Armada. Description, Data, Alarm, Config of the equipment are also sent.

* Remote Site - New control to copy address from the top site level (not the street).

* Remote Site - Address is copied from Top Site on first creation

* Up Converter System: Set/Clear Delay of the slot alarm increased to 15

* Default Post XML timeout changed to 100 seconds (was 2 seconds)

Revision 0.118.0.3 (23/01/2013) - SOFT 000031 29

- Fix bug introduced in 0.113.0.3 - If the site id is changed to anything starting with 1 like 11, 1021, etc. A stack overflow can happen at next reboot.

* Inverter system - Support of ETSI XML posting for real time events in Armada.

Revision 0.117.0.3 (21/01/2013) - SOFT 000031 28

- Fix bug introduced in 0.116.0.3 about the data record xml generation)

* Remote Site: Alarms list is updated depending on remote system (no fan alarm with 60W module for example)

* Remote Power System: Alarms are now grouped

+ Web Server: Display the Site Name as title of the web page

+ Display the Serial Number of Cordex Rectifier and Inverters in the left menu and on top of the element tables, display the reference for systems

Revision 0.116.0.3 (16/01/2013) - SOFT 000031 27

- Fix for relay control problem on ADIO10 (introduced in 0.115.0.3 changes)

* New control elements to calibrate voltage and currents on ADIO10

+ When the Site Name is configured, it is now the title of the web page. This needs a complete refresh of the web page (Ctrl-F5)

- Inverter system with T2S - Save to T2s is now more reliable

+ Inverter system with T2S - New control element to Turn On/Off all modules

* New parameters for site.xml, allowing to download only some resolutions of the records (day, hour, minute, second). By default, it retrieves only daily and hourly data records

* Finalization of the equalize feature for Cordex dc systems

+ Implementation of the periodic automatic battery test

Revision 0.115.0.3 (20/12/2012) - SOFT 000031 26

- Reworked relay boolean condition on ADIOs. Possibility to configure normal condition as 'Energized' or 'De-Energized'.

- Some Alarm Set delay were not reloaded correctly after reboot, like the bus voltage sense failure

* Better support of T2S alarms

* Support of the T2S with Media Inverters

* Relay of Alarm 'Missing Rectifiers' can now be saved in MCU

Revision 0.114.0.7 (17/12/2012) - SOFT 000031 25

- Randomly, system could reboot at midnight during data records saving

- If events.xml was corrupted, the system could never start without deleting the file

* Better implementation of the data_record management. Thread safe and faster.

* Improvement of the DC bus voltage sense failure detection on Cordex

- Digital Input alarm logic was inverted on ADIO 7-8-9-10. If you are using it, care required when upgrading.

* More robust and faster startup

* Reboot improved to reply to request, delayed by 10 seconds to allow events to be sent to Arm@da

- After a 'Clear All Events' or 'Clear Events', the events were not rewritten to flash, and were present again at reboot. (broken in 0.113.0.3)

* Optimisation of the Web Server - Faster and uses less memory when files are posted

* Better support of zip files generation (site.xml.zip). The files are now fully compliant (before, it was a compressed stream)

- PLC functions without arguments like \$second() where broken unless used as \$second(0)

Revision 0.113.0.3 (15/11/2012) - SOFT 000031 24

- SNMP walk was not working from top snmp node

+ Introduced group possibilities for the alarm table

+ Events are now automatically saved in a flat file : events_flat.xml. events.xml is converted on first boot.

+ Group is now loaded from configuration.xml for any element, allowing total customisation of name/group of elements

+ Possibility to rename Name and Group of any element from the web interface

+ Initial limited support of Cordex Converters

+ Support of energy meter IEM3150 on RS485 bus

* Improved RS485 modbus driver allowing different types of device on the same bus
* CEM03 - Remote Site can now have an id > 100 (up to 1000)
* Better implementation of the battery test for Cordex DC Systems
* SNMP - Improved MIB compliance - Some oid related name were too long
- SNMP - Traps content oids where shifted of 1
+ Cordex - Initial support of firmware upgrade

Revision 0.111.0.5 (12/10/2012)
- Corrected bugs in Cordex regulation, load sharing was wrong if canid did not match rectifier id

Revision 0.111.0.3 (31/07/2012) - SOFT 000031 23
+ Support of multiple Inverter System (T2S)
* Allow to limit the request of one CAN message at the time (for T2S)
+ Initial support of Alpha CXC over SNMP

Revision 0.110.0.3 (11/07/2012) - SOFT 000031 22
+ SNMP - Initial Support of monitoring of SNMP device like the Cordex CXC
+ Added possibilites to store a fix information about alarms
+ Support of 850W/1000W systems with embedded distribution.
+ Auto detection of the rectifier model for smart energy
+ Introduction of 'Absent' status for Cordex Rectifiers
+ New site control to remove absent equipments
+ New alarm at the site level to notify that the last configuration changes are not saved
* Remote Power Feeding - Added customer description element at the Remote Power Feeding System level
* Remote Power Feeding - Possiblitly to define the number of CEM03 by rack, in master/slave configuration --> up to 64 racks
* Better support of T2S inverter monitoring

* Better conversion from XML to XLS. (site.xml.xls) Can be used to generate a system user guide with the request : site.xml.xls?help=true&control=true

- CAN Driver - Randomly, a can message was corrupted because of an OS interrupt during SPI communication

- CAN Driver - The can driver was crashing when there was only one node on the bus and it was removed

- It was no possible to reset to empty the list of required node on the can bus (config Required CAN Bus Node IDs)

- Changed unit of Rectifier Cordex 'Service Time'(s->m) and 'Converted Energy'(KJ->kwh)

Revision 0.106.0.3 (22/03/2012) - SOFT 000031 21

* Changed the versioning method to allow modifications of release - 0.106.0.3 is the version after 0.1.0.104

Revision 0.1.0.104 (15/03/2012)

- CET Inverter were not detected anymore correctly -broken with 1.0.96

- Remote Powering System was not detected anymore correctly - broken with 1.0.96

* Remote Power Feeding system - New alarm is generated 'Configuration problem' when the slot is empty but there is a configuration

Revision 0.1.0.102 (23/02/2012)

* Modbus Slave – Do not reply anymore until modbus variable are updated on dc system creation. This avoids to send transient 'fake' data

Revision 0.1.0.100 (15/02/2012)

- Modbus Slave – Socket was closed if the device id did not exist. Comp@s will now send a Modbus exception according to the standard.

- In remote Site in relation of a remote power feeding system, the latitude position parameter was not set correctly. (And changed the longitude).

Revision 0.1.0.98 (30/11/2011)

- In configurations with multiple independent racks, Modbus data were not correctly updated when multiple request on different racks were processed during one second.

Revision 0.1.0.96 (21/11/2011)

+ First official release supporting cordex 4kw rectifier, with new UCC

+ CanOpen Node definition is now managed to avoid any interference between new development and old qualified developments. (Thanks to better use of the polymorphism)

+ Complete support of LSS devices (Dynamic CanOpen node addressing for Cordex rectifiers)

+ Optimization of the CAN and CANOpen layer to reduce cpu usage. Great result achieved, CPU usage reduced by more than 20%. This allows better reactivity through the communications interfaces.

+ Web interface allows minimizing parts of the tables, by group.

Revision 0.1.0.88 (11/09/2011) - SOFT 000031 20

* Added debug features to analyze Modbus problems (connection timeout, new sockets, etc.)

* Support of rack 300W, with specific battery configuration possibilities with the help of the front button (electronic LVD)

Revision 0.1.0.86 (12/07/2011) - SOFT 000031 19

* The auto-save of records happening at midnight is now running in a separated thread to avoid any loss of communication and any problem in the main loop.

Revision 0.1.0.84 (21/06/2011)

* Support of up to 4 master racks on the modbus interface. (Previously 4). Modbus id 1-->4 are reserved for the 4 first DC Systems. If a request is sent to another id, the dc system 1 will reply.

Revision 0.1.0.82 (16/06/2011) - SOFT 000031 18

- Problem with reload of current limitation regulation parameter (because development test on going with hard coded values)

Revision 0.1.0.80 (16/06/2011)

+ Initial support for Alpha Cordex Rectifiers regulation of the dc system

+ Support of rack CAPTIN 300W

- Modbus Slave communication could fail when there are socket problems. (Cable disconnection, timeout, etc.) - This problems appeared with the new Ethernet drivers of BSP 3.9.

Revision 0.1.0.78 (30/05/2011) - SOFT 00031 17

+ Added support of PLC functions for es1 device.

Revision 0.1.0.76 (27/05/2011) - SOFT 00031 17

* RS485 communications was corrupted when interrupted by another task with higher priority.

Revision 0.1.0.74 (24/05/2011)

* New CAN driver – reduced CPU usage by up to 30%.

* New operating system – BSP 3.9

* New production tool – display instructions also in English

- BSP 3.9 new Ethernet driver is now synchronous to solve problems when communication is very high – Microsoft bug (Modbus fast request in loop for instance)

Revision 0.1.0.72 (20/05/2011)

+ Added hidden function to clear registry (may be required after OS update)

Revision 0.1.0.70 (10/05/2011)

+ Possibilities to auto save records in xml, download files from web interface, and delete files.

+ Possibilities to rename descriptions, alarms, data, configuration and control elements with the configuration.xml file

+ Initial support of independent LVD

+ Initial support of predefined configurations

Revision 0.1.0.68 (20/04/2011)

- Hardware watchdog – forgot to uncomment after test.

Revision 0.1.0.66 (20/04/2011)

+ Added zip extraction functions : Extract Zip File in user-upload

- Records of the energy system pulse counter were loaded twice with a PM9C device

Revision 0.1.0.64 (16/04/2011)

+ Support of remote upgrade of the operating system and boot loader. (very advanced, necessary only for specific new functionalities)

+ Added data at site level: 'CPU Percentage Usage' and 'Free Flash Memory Space', with associated records.

+ Added description at site level : Operating System Revision

+ Support for the http post of files

+ New web page accessible from "Advanced" : manage_files.html

+ The exe file are analysed to retrieve the software revision

+ The zip files are analysed to discover the compressed file. (Only one file by zip is allowed to avoid unmanageable folder structure)

+ Added advanced functions in site/control: (used by the manage files web-page) (Flash Binary, Download File From Url, Delete User Uploaded File, Move User Uploaded File

Revision 0.1.0.62 (10/04/2011)

* Support of snmp get bulk

* Added possibilities to rename all the variable names. Change the name in the xml configuration file and the related id will be updated on start. (for description, data, alarm, config and control)

- Snmp walk was buggy with some PLC data configurations

Revision 0.1.0.60 (6/04/2011)

+ Added configuration parameters to force the Ethernet mode (10-100Mb – Half-full duplex. (Require OS 3.5 at least)

+ Initial support of snmp get bulk

+ Improved support of default snmp oid (1.3.6.1.2.1.1.4,5,6,9.1.3

Revision 0.1.0.58 (5/04/2011)

- Rewrite of the Modbus RTU Master driver to solve random crash after a few days (windows serial driver bug)

Revision 0.1.0.56 (9/03/2011)

+ Support of additional extensions for Opera Net Project (sensors and actuators)

+ Support of PM9C energy counter over RS485

Revision 0.1.0.54 (21/02/2011)

+ Initial support of Alpha rectifiers

+ CANOpen LSS master implementation

* Added PLC functions to get site level info

Revision 0.1.0.52 (6/01/2011)

+ Initial support of RS485 Modbus Master

* Added entry 151 in Modbus

Revision 0.1.0.50 (29/10/2010) - SOFT 000031 16

* Improved support of 300W rack family

Revision 0.1.0.48 (18/10/2010)

+ Initial support of 300W rack family

Revision 0.1.0.46 (29/06/2010)

* Support of 3 dc-system over Modbus interface

Revision 0.1.0.44 (3/06/2010)

* Added concept of dc system and rectifier models (for smart functions)

Revision 0.1.0.42 (20/04/2010)

* Improved support of CET inverters

- Bug correction of removed rectifiers if not declared in large systems

Revision 0.1.0.40 (21/01/2010) - SOFT 000031 14

+ Minor support of CET inverters

* Change of OS, minor security updates (BSP 0.5)

- Correction of Ethernet bug with HUB (drivers was switching of the Ethernet devices if disconnected from hub)

Revision 0.1.0.38 (19/01/2010)

* Review of the logic for ac fail conditions

Revision 0.1.0.34 (24/11/2009)

* Increased reliability of the CAN bootloader reset algorithm

Revision 0.1.0.32 (19/11/2009)

+ Support of large system with CAN regulation (up to 90x2600W rectifiers)

Revision 0.1.0.30 (19/10/2009)

+ Support of MCU0548

* Changed remote system type name (3x120w, etc)

Revision 0.1.0.28 (19/10/2009) - SOFT 000031 13

* Data records are now stored in XML, and are auto-saved

* Data records are reloaded on startup

* Optimization of the XML file generation

* Support of compressed XML file in ZIP (xml.zip)

* Full support of SNMP V3 traps

* Added support of energy consumption measurement at the energy system level (pulse counter)

* Added cold start type event (to be able to rediscover the site in XML after power outage – according to ES 202 336 standard change request)

- Modification of one registry parameter, to disable the “auto sense mode” of Ethernet, which was disabling the Ethernet when connected to a hub.

Revision 0.1.0.26 (16/06/2009)

* Added support for SNMP V3, with updated libraries

* Added support of remote power feeding systems

* Compilation in VS2008

* Web page layout changed from Cherokee to Mitra E&I

* Updated version of operation system, with latest windows update and latest drivers. (in production with SOFT 000031 12)

- Bug in the data record queue for last days and last hours records.

Revision 0.1.0.24 (27/03/2009)

* Added support of MCU3048M6

* Optimization of the CAN driver

Revision 0.1.0.22 (1/10/2008) - SOFT 000031 12

* (Updated OS drivers on 25 March 2009, because of new bootloader on Comp@s card.)

- DC System Refresh Task buggy if only one rectifier in current limitation --> nothing was refreshed

Revision 0.1.0.20 (1/09/2008) - SOFT 000031 11

* With the Modbus interface, the currents are now given in 0.1A as unit.

* Support of XXXXconfigurationYYYY.xml files in Factory folder. This allows naming easily the configuration files.

- With a very low probability, the application could crash during startup. (It restarted correctly after 5 minutes thanks to the watchdog).

Revision 0.1.0.18 (1/08/2008)

* New configuration parameter: XML Event Posting To Secondary Only If Primary Failure (Set to True by default). This allows sending XML events to the redundant server only if the first fails.

* New configuration parameter: XML Heartbeat Time (minute): Define the time in minutes between two heartbeats. It is now possible to request the monitoring to send heartbeat in order to check the communication availability. This XML heartbeat looks like: <site id="1" status="alarms" severity_type="major" severity_level="6" /> Note that the same behavior with primary/secondary server is used.

* Modbus compatibility improvements

* No current limitation by default (1000A by default, must be set correctly).

* Functional battery test is configured (1000A as discharge current, 0% of discharge capacity, duration of 10 minutes). --> Must be correctly configured with the battery parameters for reliable battery test.

* PLC license is now included in the Asset license.

Revision 0.1.0.16 (1/07/2008)

* New Modbus license option

* MCU30110 support

* Comp@s Display Module Support (CDM)

* CSV Log file of battery tests can be downloaded from web interface

- Firmware boot loading may fail under some circumstances

- The web server function 'ProcessXML.cgi' processed only site level configuration

- On system reboot, for alarm related events, the datetime is not parsed correctly

- On system reboot, the set delay of the alarms was replaced by the clear delay.

Revision 0.1.0.14 (28/05/2008) - SOFT 000031 10

* Web interface compatible with older browser (Internet Explorer 6)

* Web page generation 4x faster

+ Time Zone support

+ Daylight Saving Time

- The system time could be badly loaded during booting

- XML event posting locked when server answers badly

- Possible web server crash if socket not correctly closed

Revision 0.1.0.12 (14/02/2008) - SOFT 000031 09

+ Support of multi-language web interface

+ Support of 2x6x1800W DC systems (with 2 MCU1848)

+ PLC module added (customization of data and alarm)

- The severity_type attribute in the XML syntax was not correctly encoded

Revision 0.1.0.8 (6/01/2008) - SOFT 000031 06

* The default value of the minimal number of rectifier is 0, to avoid alarm by default.

+ Support of 3U rack with up to 8 CAR0948TN.

* Improvement of the logic of the site access control with SAM0948. Any digital input can be associated with a door.

- DC system alarm relay configuration was not saved if configured on '0'.

- Problem with reload of customized alarm related to the digital inputs of the dc system.

Revision 0.1.0.2 (1/11/2007)

+ Support of MCU1848

* Added alarm "Missing Rectifiers" at DC system level

* Added configuration parameter “Minimal number of rectifier” at DC system level

- Configuration of the SAM0948 was not kept after system reboot

Revision 0.1.0.1 (1/06/2007) - SOFT 000031 01

+ First official version

+ Support of MCU0948

+ Support of CAR0948TN

+ Support of SAM0948