Monthly Specification Update

Intel® Server Board S1200BTLR
Intel® Server Board S1200BTSR
Intel® Server Board S1200BTLRM
Intel® Server System R1304BTLSFANR
Intel® Server System R1304BTSSFANR
Intel® Server System R1304BTLSHBNR
Intel® Server System P4304BTLSFCNR
Intel® Server System P4304BTSSFCNR
Intel® Server System P4304BTLSHCNR

March 2014

Revision History

Date	Modifications
April 2011	Initial release.
May 2011	Updated Errata 1-4.
June 2011	Added Errata 16-19; updated Errata 9, 10, 12, 13, and 14.
July 2011	Added Errata 20 and 21.
September 2011	Added Errata 22, 23, and 24.
October 2011	Added Errata 25 and 26; updated Errata 5, 7, 9, 16, 17, 19, 20, 21, 23, and 24.
November 2011	Added Errata 27 and 28; added document change 3.
December 2011	No update.
April 2012	Added Errata 29 and 30; updated Errata 8, 23, and 26; updated Documentation change 1 and 3.
May 2012	Added Errata 31 and 32.
June 2012	Added Errata 33; updated Errata 22 and 31; added Documentation change 4.
July 2012	Added Errata 34; updated Errata 32.
September 2012	Added Errata 35.
October 2012	Added Errata 36; added Documentation change 5.
November 2012	Updated Errata 34 and 35.
December 2012	Added Errata 37.
January 2013	No update.
March 2013	Updated Errata 25, 27, 36, and 37; added Documentation change 6; updated Documentation change 3.
May 2013	Updated Errata 18.
October 2013	Added documentation change 7.
January 2014	Added Errata 38; updated documentation change 3.
March 2014	Added Errata 39; updated documentation change 2 and 3.

Disclaimers

The Monthly Specification Update Server System may contain design defects or errors known as errata that may cause the product to deviate from the published specifications. Current characterized errata are documented in this Specification Update.

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Preface

This document communicates product Errata and Documentation Changes and Corrections for the following Intel Server Products:

- Intel® Server Board S1200BTLR/S1200BTSR/S1200BTLRM
- Intel® Server System R1304BTLSFANR/R1304BTSSFANR/R1304BTLSHBNR
- Intel® Server System P4304BTLSFCNR/P4304BTSSFCNR/R4304BTLSHCNR

The following defines items communicated in this document:

Documentation Changes include typos, errors, or omissions from the current published specifications. These changes will be incorporated in the next release of the specifications.

Specification Changes are modifications to the current published specifications for a given product. These include typos, errors, or omissions. Specified changes will be incorporated in the next release of the document.

Specification Clarifications describe a supported feature or function in greater detail or further highlight their impact to a complex design requirement. These clarifications will be incorporated in the next release of the document.

Errata are design defects or deviations from current published specifications for a given product. Published errata may or may not be corrected. Hardware and software designed to be used with any given processor stepping must assume that all errata documented for that processor stepping are present on all devices.

Summary Tables of Changes

The following tables provide an overview of known errata and known document changes that apply to the specified Intel Server Products. The tables use the following notations:

Doc   Intel intends to update the appropriate documentation in a future revision.

Fix   Intel intends to correct this erratum.

Fixed   This erratum has been corrected.

No Fix   There are no plans to correct this erratum.

Shaded   This item is new or has been modified from the previous specification update.

Table 1. Errata Summary

No.	Plans	Description of Errata
1	Fixed	BIOS setting is locked after running "syscfg/bldfs" to load BIOS default setting.
2	Fixed	Admin Password is cleared after loading user defaults.
3	Fixed	By using LSI* SCSI storage card 20320 can't enter into Microsoft Windows 2008* R2.
4	Fixed	Intelligent Platform Management Bus (IPMB) functions on devices connected to IPMB connector might not be available on Intel® Server Board S1200BTL.
5	Fixed	Unable to install SLES* 11 Service Package 1 to iSCSi drive from onboard Intel® 82579 network card.
6	No Fix	Node Manager does not work with Intel® Core™ Processor i3-2100 series or Intel® Pentium® Processor.
7	Fixed	Intel® Integrated RAID Module SRMS2LL040 does not work.
8	Fixed	Memory Mapped I/O above 4 GB option can't map 64bit addresses.
9	Fixed	Windows 2008* R2 can't be installed properly or the OS will hang with NIC ROM disabled in BIOS.
10	Fixed	The SGPIO cable is not compatible with Intel® SAS Entry Raid Module AXX4SASMOD, Intel® Integrated RAID Module SRMS2AF040 and Intel® Integrated RAID Module SRMS2LL040.
11	No Fix	When EULOT 6 is enabled, the system can't boot up by press power button once.
12	Fixed	The value of SMI BIOS type 17 is not correct.
13	Fixed	BMC user SOL payload enable/disable status can't be saved across BMC reset.
14	Fixed	SOL activation is failed when Console Redirection is disabled in BIOS Setup.
15	Fixed	The 4th HDD cage interferes with the right side rack handle screws on then Intel® R1304BTLSHBN.
16	Fixed	Microsoft* Windows SBS 2011 Essential doesn't recognize ESRT2 driver during installation.
17	Fixed	System may hang about 20 seconds during system rebooting.
18	No Fix	Some Function Keys does not work through SOL session.
19	Fixed	Keyboard does not work under EFI if USB flash disk is inserted/removed when enabled TXT in BIOS.
20	Fixed	When using Hardware RAID controller, pressing "Ctrl+G" cannot enter RAID configuration utility.
21	Fixed	The RPM of three fans on Intel® Server System R1304BTLSHBN drops to 0 sometimes after AC cycle.
22	Fixed	PCT reports "Processor Does Not Support Brand ID."
23	Fixed	The SEL is keep reporting when RAID is rebuilding on Intel® Server System R1304BTLSHBN.
24	Fixed	The system cannot detect more than 8 USB devices.
25	No Fix	USB Keyboard mouse cannot wakeup the system from the Standby mode.
26	Fixed	The NMI button on front panel does not work as expected.

27	No Fix	Consistency Check in S1200BTL/S1200BTS motherboard's ESRT2 OpROM Configuration Utility returns error message.
28	No Fix	There is no driver for Intel® 82579 network card on VMWare ESXi* 5.0, VMWare ESXi* 4.1 Update 1 and VMWare* ESX 4.1 Update1.
29	Fixed	Using the 4K section HDDs in USB port and set it as non-boot device, it needs 10 minute to pass through. It is should be in less than one minutes.
30	Fixed	Server Management Settings cannot be configured using latest SysCfg Version 10 Build6 on S1200BTL.
31	Fixed	Function key can not work on KVM remote console on S1200BTL board.
32	Fix	ME downgrade is not supported by IDA and OFU.
33	Fix	When updating BMC in IDA, IDA shows BMC Release version in Hex. E.g., 1.14 shown as 1.0e.
34	Fixed	NIC port1 will be disabled in BIOS default configuation.
35	Fixed	HDD LED may blink amber when a hot swap bay is empty on the Intel® Server System R1304BTLSHBN.
36	No Fix	There will be an error logged in BIOS setup Error Manager when both onboard RAID and multiple add-in cards are in use.
37	Fixed	There may be Packet loss on the Intel® 82579 Ethernet Controller of the Intel® Server Board S1200BT family.
38	Fixed	Memory throttling will occur when memory DIMM temperature reaches approximately 40ºC on the Intel® Server Board S1200BTLR and S1200BTLRM.
39	No Fix	Fail to run the executable file under EFI with its full-path.

Table 2. Documentation Changes

No.	Plans	Document Name	Description of Documentation Change
1	Publish	*Intel® Server Board S1200BT Technical Product Specification Rev 2.4*	Updated MTBF value.
2	Publish	*Intel® Server System R1304BTLSFAN, R1304BTLSHBN, and R1304BTSSFAN Technical Product Specification Rev 2.4*	Updated chassis airflow specification.
3	Publish	*Intel® Server Board S1200BT Configuration Guide Rev 3.3*	Updated the MM number for FXX1304HSBP.

The following sections provide in-depth descriptions of each erratum/documentation change indicated in the tables above. The errata and documentation change numbers referenced in the following sections correspond to the numbers in the tables above.

Errata

1.   BIOS setting is locked after running "syscfg/bldfs" to load BIOS default setting

Problem   The user uses "syscfg/bldfs" to load BIOS default setting, the BIOS setting is locked.

Implication   The user can't change the BIOS setting after the user uses "syscfg/bldfs" to load BIOS default setting on Intel® Server Board S1200BTL.

Status   This issue is fixed in BIOS Revision 24.

Workaround   The user can use CMOS clear to clear the settings and reboot the system, after that the BIOS setting can work.

2.   Admin Password is cleared after loading user defaults

Problem   Set admin password by using syscfg command "syscfg/bap", "int123", and then load user default setting by using "syscfg/bldfs", reboot the system to enter into BIOS setup, the password is not shown.

Implication   After the user sets the password using the "syscfg" utility, the password does not prompt the user after the first reboot on Intel® Server Board S1200BTL.

Status   This issue is fixed in BIOS Revision 24.

Workaround   Reboot the system twice, the admin password will be shown.

3.   LSI* SCSI storage card 20320 can't enter into Microsoft Windows 2008* R2

Problem   When using the LSI* SCSI storage card 20320, the system can't enter into Microsoft Windows 2008* R2. It hangs on the error "Info: An error occurred while attempting to read the boot configuration data".

Implication   The user can't use LSI* SCSI storage card 20320 on the Intel® Server Board**s** S1200BTL.

Status   This issue is fixed in BIOS Revision 24.

Workaround   None.

4. Intelligent Platform Management Bus (IPMB) functions on devices connected to IPMB connector might not be available on Intel® Server Board S1200BTL

Problem	Intelligent Platform Management Bus (IPMB) functions on devices connected to IPMB connector might not be available on the Intel® Server Board S1200BTL.
Implication	The issue has been root caused to a violation of IPMI and PM Bus specification on the IPMB and PM Bus ports.
Status	This issue is fixed in BMC Revision 01.05.
Workaround	None.

5. Unable to install Linux SLES* 11 Service Package 1 to iSCSi drive from onboard Intel® 82579 network card

Problem	Unable to install SLES11* SP1 to iSCSi drive from 82579 network card.
Implication	SLES11* SP1 doesn't include a driver for Intel® 82579 network cards.
Status	The issue is under investigation.
Workaround	N/A.

6. Node Manager does not work with Intel® Core™ Processor i3-2100 series or Intel® Pentium® Processor

Problem	On Intel® Server Board S1200BTL, node manager is supported with Intel® Xeon® Processor E3-1200 Series, but node manager is not supported with Intel® Core™ Processor i3-2100 series or Intel® Pentium® Processor.
Implication	Hardware required for CPU power limiting is functional on Intel® Xeon® Processor; it is not functional on Intel® Core™ i3 processor or Intel® Pentium® Processor.
Status	No Fix.
Workaround	N/A.

7. Intel® Integrated RAID Module SRMS2LL040 doesn't work

Problem	OS is installed to the Intel® Integrated RAID module SRMS2LL040 with SATA CDROM (the on-board SATA mode is set to AHCI mode in BIOS Setup), the OS fails to reboot after removing CDROM.
Implication	The OpROM of SRMS2LL040 is not compatible with the BIOS.

Status	Fixed in BIOS Revision 30.
Workaround	N/A.

8. Memory Mapped I/O above 4 GB option can't map 64bit addresses

Problem	There is a setting in BIOS Setup for memory map I/O above 4GB, but this setting can't map 64bit addresses.
Implication	A device with a 64-bit BAR region, the memory is still located below 4GB.
Status	Fixed in BIOS Revision 33.
Workaround	N/A.

9. Windows 2008* R2 can't be installed properly or the OS will reset with NIC ROM disabled in BIOS

Problem	On Intel® Server Board S1200BTL and S1200BTS, the installation of Windows 2008* R2 will hang up or the system will reset after entering into OS if NIC ROM is disabled in BIOS Setup.
Implication	The installation of Windows 2008* R2 will hang up or the system will reset after entering into OS if NIC ROM is disabled.
Status	Fixed in BIOS Revision 28.
Workaround	The user needs to enable NIC ROM in BIOS when installing or using Windows 2008* R2.

10. The SGPIO cable is not compatible with Intel® SAS Entry Raid Module AXX4SASMOD, Intel® Integrated RAID Module SRMS2AF040, and Intel® Integrated RAID Module SRMS2LL040

Problem	The SGPIO cable isn't compatiable between some modules and the backplane in the system.
Implication	The SGPIO connector on the backplane in the hotswap system or the hotswap chassis is a 5-pin connector. The SGPIO connector in module is a 4-pin connector. The cable shipped with the system or the chassis is a 5-pin to 5-pin cable. The SGPIO cable is used to connect the Intel® Server Board S1200BTL and the backplane, but not compatible with the affected modules.
Status	PCN110781-00 has a customer notification for the new Y-type cable cut-in schedule.
Workaround	N/A.

11. When EuLOT 6 is enabled, the system can't boot up by pressing the power button one time

Problem   When the user enables EuLOT6 in BIOS Setup, the system can't be powered up by pressing the power button one time.

Implication   The delay for RSMRST to PWRBTN is not long enough.

Status   No Fix.

Workaround   The user needs to press the power button twice when EuLOT6 is enabled in BIOS to ensure the system can power up.

12. The value of SMBIOS Type 17 is not correct

Problem   The value of SMBIOS Type 17 is not correct. The total width shows 128 bit. It should be 72 bit.

Implication   The SMBIOS Type 17 setting is not correct.

Status   Fixed in BIOS Revision 28.

Workaround   N/A.

13. BMC user SOL payload enable/disable status can't be saved after BMC reset

Problem   When changing the setting of the BMC user SOL payload to enable or disable after resetting the system, the setting can't be saved.

Implication   The function of enabling or disabling the BMC user SOL playload does not work.

Status   Fixed in BMC release Revision 01.07.

Workaround   N/A.

14. SOL activation fails when Console Redirection is disabled in BIOS

Problem   SOL activation fails when Console Redirection is disabled in BIOS Setup.

Implication   The BIOS requires the legacy serial console redirection to be enabled before the SOL session is established.

Status   Fixed in BMC release Revision 01.07.

Workaround   To use SOL, the user needs to enable the console redirection in BIOS.

15. The 4ᵗʰ HDD cage interferes with the right side rack handle screws on the Intel® Server System R1304BTLSHBN

Problem   The screws used to attach the rack handle to the chassis are too long. The
                    screw in the rack handle package is 6mm.

Implication   Using the screw for the rack handle will interfere with the chassis.

Status   The shorter screws (4mm length) can fix this issue. Intel will cut-in the new
                    screws in the next build.

Workaround   A 4mm screw will fix this issue.

16. Microsoft* Windows SBS 2011 Essential doesn't recognize ESRT2 driver during installation

Problem   Microsoft* Windows SBS 2011 Essential doesn't recognize ESRT2 driver
                    during installation.

Implication   During operating system installation over ESRT2 RAID, system doesn't load
                    ESRT2 driver successfully.

Status   Fixed in BIOS Rev.30.

Workaround   Before putting the driver into driver media, change MegaSR.INF file name into
                    megasr.inf, which has all lower case letters in the file name.

17. System may hang about 20 seconds during system reboot

Problem   On Intel® Server Board S1200BTS, when trying to reboot the system, it may
                    hang about 20 seconds during reboot.

Implication   Users have to wait for 20s to let the system boot up normally.

Status   Fixed in BIOS Revision 30.

Workaround   None.

18. Some Function Keys do not work during a SOL session

Problem   The below function keys does not work during a SOL session: "Backspace",
                    "Insert", "Delete", "Home", "End", "PgUp" and "PgDn".

Implication   The user can't use those function keys during a SOL session.

Status   No Fix.

Workaround   Combined keys replace these special keys to work.

19.   Keyboard does not work under EFI if USB flash disk is inserted/removed when TXT is enabled in BIOS Setup

Problem   Enable TXT function in BIOS and then insert or remove USB flash disk, keyboard may not work under EFI.

Implication   The user can not insert or remove USB flash disk if the user needs to use keyboard under EFI when TXT is enabled.

Status   Fixed in BIOS Revision 30.

Workaround   None.

20.   When using Hardware RAID controller, pressing "Ctrl+G" cannot enter RAID configuration utility

Problem   If using hardware RAID controller, pressing "Ctrl+G" cannot enter RAID configuration utility.

Implication   The user can not configure hardware RAID controller using RAID configuration utility.

Status   This issue has been fixed in BIOS Rev.28. After updating to BIOS Rev.28, the user needs to load BIOS default setting.

Workaround   None.

21.   The RPM of three fans on Intel® Server System R1304BTLSHBN may drop to 0 sometimes after AC cycle

Problem   After AC power off and power on, the RPM of three fans on Intel® Server System R1304BTLSHBN may drop to 0.

Implication   This issue happens after 1000 AC cycles with R1304BTLSHBN. After this issue happens, an AC cycle will recover the system.

Status   Fixed in BMC Rev1.10.

Workaround   None.

22.   PCT reports "Processor Does Not Support Brand ID"

Problem   When running PCT(platform confidence test utility) on Intel® Server Board S1200BTL, PCT reports "Processor Does Not Support Brand ID."

Implication   This is actually not an error message, it indicates that this Processor ID is not in the list of processors can be recognized by PCT.

Status   Fixed in PCT1.04 V02 tool.

Workaround   N/A.

23. The SEL is keep reporting when RAID is rebuilding on Intel® Server System R1304BTLSHBN

Problem   When the RAID is rebuilding, the Rebuild/Remap is recorded in SEL until the SEL is full.

Implication   The user will see the hot swap backplane rebuild SEL.

Status   Fixed in BMC Rev. 1.10.

Workaround   None.

24. The system cannot detect more than 8 USB devices

Problem   On Intel® Server Board S1200BTL/S1200BTS, the board can not detect more than 8 USB devices. It can only detect 8 USB devices or less than 8 USB devices.

Implication   The BIOS fails to control the USB controller if more than 8 USB devices plugged in.

Status   Fixed in BIOS Rev.30.

Workaround   None.

25. The board will allocate about 250MB memory for PCIe device under Microsoft* windows OS

Problem   On Intel® Server Board S1200BTL/S1200BTS, the board will reserve 250MB memory for PCIe device under Microsoft* windows OS.

Implication   The memory size showed in Windows* OS will be the memory the user installs minus about 250MB. For example, if there is 1GB memory installed in the board, the Microsoft* Windows OS will show about 750GB.

Status   No Fix.

Workaround   None.

26. The NMI button on front panel does not work as expected

Problem   When pressing the NMI button on the front panel the system does not generate an Non-Maskable Interrupt.

Implication   Cannot create NMI interrupt through the NMI button on front panel.

Status   Fixed in BIOS Rev.35

Workaround   None.

27.   Consistency Check in S1200BTL/S1200BTS motherboard's ESRT2 OpROM Configuration Utility returns error message

Problem   Consistency Check in S1200BTL/S1200BTS motherboard's ESRT2 OpROM Configuration Utility returns error message.

Implication   The screen may pop up message "Error In Reading Sectors To Drive0 ! Proceed Anyway (Y/N)?". If Y is pressed, the screen may pop up the same message after a while. The Consistency Check may not complete successfully. User has to abort the Consistency Check.

Status   No Fix. Consistency Check algorithm is very low level under ESRT2 OpROM Configuration Utility, and not compatible with some drives.

Workaround   In the operating system environment, use Intel® RAID Web Console 2 to implement Consistency Check. The failure to complete Consistency Check during ESRT2 OpROM Configuration Utility doesn't impact normal usage under operating system environment.

28.   There is no driver for Intel® 82579 network card on VMWare ESXi* 5.0, VMWare ESXi* 4.1 Update 1 and VMWare* ESX 4.1 Update 1

Problem   There is no driver for Intel® 82579 network card on VMWare ESXi* 5.0, VMWare ESXi* 4.1 Update 1 and VMWare* ESX 4.1 Update 1.

Implication   Intel® 82579 network card cannot be recoginized under VMWare ESXi* 5.0, VMWare ESXi* 4.1 Update 1 and VMWare* ESX 4.1 Update 1.

Status   NA.

Workaround   None.

29.   The boot time is 10 mins if using 4k section HDDs

Problem   Using the 4K section HDDs in USB port and set it as non-boot device, it needs 10 minute to pass through. It is should be in less than one minutes.

Implication   The boot up time is too long.

Status   Fixed in BIOS Rev.35.

Workaround   None.

30.   Unable to get Server Management variables on BTP using SysCfg

Problem   Server Management Settings cannot be configured using latest SysCfg Version 10 Build6 on S1200BTL.

Implication   The user can't change BMC setting by the latest syscfg tool on Intel® Server Board S1200BTL.

Status   Fixed in BIOS Rev.35.

Workaround   None.

31.   Function key cannot work on KVM remote console on S1200BTL board

Problem   Function key can not work on KVM remote console on S1200BTL board.

Implication   The user can't enter into BIOS setting from KVM remote console during server is booting up.

Status   Fixed in BIOS Rev.37.

Workaround   Enter BIOS setting to set the option "System Boot Timeout" from 0 to 3 seconds.

32.   ME downgrade is not supported by IDA and OFU

Problem   IDA and OFU can not support ME downgrade.

Implication   IDA and OFU doesn't support ME downgrade from 02.02.00.036 or higher version to 02.00.09.032 or lower version.

Status   May fix in the future IDA and OFU release.

Workaround   None.

33.   When updating BMC in IDA, IDA shows BMC Release version in Hex. E.g., 1.14 shown as 1.0e

Problem   IDA can not show BMC version in decimalization.

Implication   IDA only can show BMC release version in Hex when updating BMC by IDA tool.

Status   May fix in the future IDA release.

Workaround   EFI shell can show BMC version correctly.

34. NIC Port1 will be disabled in BIOS default configuration

Problem   On Intel® Server Board S1200BT family, the NIC port1 will be disabled in BIOS default configuration when upgrading BIOS from the lower versions to BIOS Rev.37

Implication   After updating to BIOS Rev.37, the NIC port1 will not work if using the BIOS default configuration.

Status   Fixed in BIOS Rev.40.

Workaround   The user can enable NIC port1 in BIOS Setup and the port will work.

35. HDD LED may blink amber when a hot swap bay is empty on the Intel® Server System R1304BTLSHBN

Problem   On the Intel® Server System R1304BTLSHBN, the HDD LED of an empty hot swap bay may blink amber when the system boots to operating system.

Implication   After booting to the OS, the HDD LED of the empty hot swap bay might keep blinking amber.

Status   Fixed in BIOS Rev.40.

Workaround   None.

36. There will be an error logged in BIOS setup Error Manager when both onboard RAID and multiple add-in cards are in use

Problem   On Intel® Server Board S1200BT family, if both onboard RAID and multiple add-in cards are in use at the same time, BIOS setup Error Manager will report a not enough memory available error.

Implication   BIOS setup Error Manager will report a not enough memory available error when both onboard RAID and other add-in cards are in use.

Status   BIOS architecture limitation. No Fix.

Workaround   None.

37. There may be Packet loss on the Intel® 82579 Ethernet Controller of the Intel® Server Board S1200BT family

Problem   On the Intel® Server Board S1200BT family, the Intel® 82579 Gigabit Ethernet Controller may experience packet loss at 100 Mbps and 1 Gbps speeds.

Implication   The Intel® 82579 Gigabit Ethernet Controller may experience packet loss at 100 Mbps and 1 Gbps speeds, which may impact Internet Protocol applications on the Intel® Server Board S1200BT family.

Status   Fixed in BIOS 41 and later.

Workaround   None.

38.   Memory throttling will occur when memory DIMM temperature reaches approximately 40º C on the Intel® Server Board S1200BTLR and S1200BTLRM

Problem   On the Intel® Server Board S1200BTLR and S1200BTLRM, memory throttling will occur when memory DIMM temperature reaches approximately 40º C.

Implication   On the Intel® Server Board S1200BTLR and S1200BTLRM, system performance drops approximately 70% when the memory throttling occurs.

Status   Fixed in BMC 01.16.5098 and later.

Workaround   None.

39.   Fail to run the executable file under EFI with its full-path

Problem   On the Intel® Server Board S1200BT family, under EFI, if the user run an executable file with its full-path, it shows that " xxx is not recognized as an internal or external command, operable program, or batch file".

Implication   The executable file cannot be run under EFI with its full-path.

Status   No Fix.

Workaround   Run the executable file in the sub-directory where it resides.

Documentation Changes

1. Intel® Server Board S1200BT Series Technical Product Specification has been updated to Rev 2.4

2. Intel® Server System R1304BTLSFAN, R1304BTLSHBN, and R1304BTSSFAN Technical Product Specification has been updated to Rev 2.4

3. Intel® Server Board S1200BT Series Configuration Guide has been updated to Rev 3.3