

**Intel Boot Agent
For Gigabit Version 1.1.15
Stepping Document**

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Intel Platform Networking Group
LAN Access Division

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Version Number	Introduction Method	Incremental Changes
1.1.15	OEM & Web release	<ul style="list-style-type: none"> • Added support for 82540EP - 101E LOM Device ID <i>(UNDI change)</i> • Under a precise set of circumstances, UDP read requests would sometimes drop a valid packet, causing a timeout. Code now performs UDP packet validation checks in the correct order. <i>(Base Code change)</i> • Reduced memory size for the UNDI driver at runtime, by reducing the size and number of receive buffers from 32KB (16x2KB) to 12KB (8x1.5KB). <i>(UNDI change)</i> • In certain older systems, the F10 BIOS setup key would not work after updating the boot agent. Modified the keyboard handling code to preserve keystrokes if the Boot Agent setup menu is not being requested. <i>(UNDI change)</i>
1.1.12	OEM release	<ul style="list-style-type: none"> • Corrected an error where the second port MAC address on an 82546 based design was miscalculated if the first port had an odd address. <i>(UNDI change)</i> • Added support for adapters supported by Intel PRO/100 & PRO/1000 Network drivers release 6.4. <i>(UNDI change)</i>.
1.1.09	OEM & Web release	<ul style="list-style-type: none"> • Added support for PRO/1000 MT Mobile Connection (1016 & 1017 device IDs). <i>(UNDI change)</i> • EEPROM algorithms matched to 10/100 Boot Agent. Ensured system interrupts are disabled during EEPROM loading to prevent critical timing from being disrupted. Also increased the loop values for REQ/GRANT to allow for longer TCO windows. <i>(UNDI change)</i> • Boot Agent incorrectly reported media failure on some slow networking connections. Increased the amount of the Boot Agent will wait for a valid link detection (from 2 seconds to 6). <i>(UNDI change)</i>
1.1.07	OEM & Web release	<ul style="list-style-type: none"> • Additional validation checks added to Microsoft Simple Boot Flag checking code to ensure the ACPI tables are valid before being used. <i>(UNDI change)</i> • Minor GUID display formatting improvement. <i>(Base Code change)</i>
1.1.06	Limited release	<ul style="list-style-type: none"> • Improved handling of fragmented UDP packets. Under certain circumstances, with previous code releases, Windows 2000 RIS could fail to complete when connected at 10Mbps. <i>(Base Code change)</i> • DHCP timeouts have been increased to cope with non-optimized networks <i>(Base Code change)</i> • Boot Agent now has better handling of referrals between PXE servers. <i>(Base Code change)</i> • In release 1.1.04 the Flash address scan code wasn't correctly adjusting for a LOM image. If the Flash address returned all 0's, the 1.1.04 code would default to a basic 'safe' configuration with poorer performance. This was only an issue for LOMs, not a problem for the NIC image. <i>(UNDI change)</i>
1.1.04	Adapters & LOM, and Web release	<ul style="list-style-type: none"> • Support for 82540EM LAN controller and Intel PRO/1000 MT Desktop Adapter, in addition to the Gigabit adapters supported by 1.0.15. <i>(UNDI change)</i> • New features:- <ul style="list-style-type: none"> • Continuous retry Driver • Enhanced diagnostics on the setup screen Driver • Support for Microsoft simple boot flag Driver
1.0.15	Initial release for Adapters & LOM, and also web release	<ul style="list-style-type: none"> • Initial release for Gigabit adapters. • Functionally equivalent to IBA 4.0.19 release for Fast Ethernet

All releases of Gigabit Intel Boot Agent are based on PXE 2.1 build 83