Release Notes
V2.08.01

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Revision History

Version	Date	Description
V2.08.01	2011 Feb	Bug fixes
V2.08	2010 Apr	Bug fixes & improvements
V2.07	2010 Jan	Changes
V2.06	2010 Jan	New features & improvements
V2.05	2009 Aug	Improvements
V2.04	2009 Jul	Improvements & changes
V2.03	2009 Mar	Bug fixes & improvements
V2.02	2009 Feb	Bug fixes & improvements
V2.01	2008 Nov	New features & improvements
V2.00	2008 Oct	First release

900-uC-DHCPc-002

Required Modules

Version 2.08.01

µC/TCP-IP	version 2.06
µC/CPU	version 1.24
µC/LIB	version 1.30

Version 2.08

µC/TCP-IP	version 2.06
µC/CPU	version 1.24
µC/LIB	version 1.30

Version 2.07

µC/TCP-IP	version 2.06
µC/CPU	version 1.24
µC/LIB	version 1.30

Version 2.06

µC/TCP-IP	version 2.06
µC/CPU	version 1.24
µC/LIB	version 1.30

Version 2.05

µC/TCP-IP	version 2.05
µC/CPU	version 1.22
µC/LIB	version 1.30

Version 2.04

µC/TCP-IP	version 2.05
µC/CPU	version 1.22
µC/LIB	version 1.30

Version 2.03

µC/TCP-IP	version 2.03
µC/CPU	version 1.22
µC/LIB	version 1.27

Version 2.02

µC/TCP-IP	version 2.02
µC/CPU	version 1.20
µC/LIB	version 1.27

Version 2.01

µC/TCP-IP	version 2.01
µC/CPU	version 1.19
µC/LIB	version 1.25

Version 2.00

µC/TCP-IP	version 2.01
µC/CPU	version 1.19
µC/LIB	version 1.25

New Features

Version 2.08.01

N/A

Version 2.08

N/A

Version 2.07

N/A

Version 2.06

V2.06-001

Added `dhcp-c_os.c` (µC/OS-III port) to support µC/OS-III V3.01.0 (& later versions). See also 'Improvements V2.06-001'.

Version 2.05

N/A

Version 2.04

N/A

Version 2.03

N/A

Version 2.02

N/A

Version 2.01

V2.01-001

Added function `DHCPc_GetOptVal()` get retrieve the value of a specific DHCP option for a configured interface.

Version 2.00

N/A

Improvements

Version 2.08.01

N/A

Version 2.08

V2.08-001

Renamed and reorganized most functions to logically group similar functions.

V2.08-002

µC/TCP-IP configuration (`net_cfg.h`) validated for required µC/DHCPc V2 build/operation.

Version 2.07

N/A

Version 2.06

V2.06-001

Added `dhcp-c_os.c` (µC/OS-III port) to support µC/OS-III V3.01.0 (& later versions). See also 'New Features V2.06-001'.

Version 2.05

V2.05-001

Added parameter requests to DHCP messages:

- Subnet mask
- Router address
- Domain name server
- Time offset

Version 2.04

V2.04-001

Added system defined requested parameters when negotiating DHCP lease.

Version 2.03

V2.03-001

Replaced all '`cpu_sr`' local variable declarations with µC/CPU's new `CPU_SR_ALLOC()` macro.

Version 2.02

N/A

Version 2.01

V2.01-001

The `DHCPc_Start()` function now handles requested parameters.

Version 2.00

N/A

Changes

Version 2.08.01

N/A

Version 2.08

V2.08-001

Modified `DHCPc_OS_Init()` [µC/OS-III port] to return `DHCPc_OS_ERR_CFG` for any invalid µC/DHCPc V2 / µC/OS-III configuration.

Version 2.07

N/A

Version 2.06

N/A

Version 2.05

N/A

Version 2.04

V2.04-001

µC/TCP-IP V2's new `net_app.c` functions now being used for socket operations.

Version 2.03

N/A

Version 2.02

N/A

Version 2.01

V2.01-001

Changed `DHCPc_Start()` function prototype to use the `DHCPc_OPT_CODE` data type for requested parameters:

```
void  DHCPc_Start (NET_IF_NBR       if_nbr,
                   DHCPc_OPT_CODE  *preq_param_tbl,
                   CPU_INT08U       req_param_tbl_qty,
                   DHCPc_ERR       *perr);
```

Version 2.00

N/A

Corrections

Version 2.08.01

V2.08.01-001

DHCPc_StopStateHandler() failed to set local if_nbr prior to all DHCPc_StopStateHandler() handling that required if_nbr to already be configured. Fixed by initially setting if_nbr to the DHCPc_IF_INFO object's IF_Nbr.

Version 2.08

V2.08-001

DHCPc_AddrValidate() was incorrectly excluded from compilation even if DHCPc_CFG_DYN_LOCAL_LINK_ADDR_EN was enabled. Fixed by compiling DHCPc_AddrValidate() when DHCPc_CFG_DYN_LOCAL_LINK_ADDR_EN is enabled.

V2.08-002

DHCPc_OS_TmrSignal() [µC/OS-III port] incorrectly signaled µC/DHCPc V2's lock, 'DHCPc_OS_LockObj'. Fixed by signaling µC/DHCPc V2's timer, 'DHCPc_OS_TmrSignalObj'.

V2.08-003a

DHCPc_OS_TimeCalcElapsed_sec() [µC/OS ports] incorrectly returned elapsed time (in seconds) as a 16-bit unsigned integer, even though elapsed times could be greater than 65535 seconds. Fixed by returning elapsed time as 32-bit unsigned integer.

V2.08-003b

DHCPc_OS_TimeCalcElapsed_sec() [µC/OS ports] incorrectly calculated the delta elapsed time (in ticks) when 'time_stop' was greater than 'time_start' by one tick. Fixed by adding one tick to the delta calculation.

V2.08-003c

DHCPc_OS_TimeCalcElapsed_sec() [µC/OS ports] failed to check for divide by zero when calculating the elapsed time (in seconds). Fixed by checking if tick rate is greater than zero before calculating the elapsed time.

V2.08-004a

DHCPc_InitStateHandler() did not increment the retry counter when the address validation failed. Fixed by incrementing the retry counter.

V2.08-004b

DHCPc_InitStateHandler() did not send a DECLINE messager when the address validation failed. Fixed by calling DHCPc_DeclineRelease().

V2.08-005

DHCPc_DeclineRelease() always assumed a RELEASE message. Fixed by correctly calling DHCPc_TxMsgPrepare().

Version 2.07

N/A

Version 2.06

N/A

Version 2.05

N/A

Version 2.04

N/A

Version 2.03

V2.03-001

`DHCPc_RenewRebindStateHandler()` could cause lease not to be renewed correctly. Fixed by closing socket after having performed the appropriate action.

V2.03-002

`DHCPc_StopStateHandler()` did not correctly free all objects linked to an interface's lease. Fixed by freeing the `DHCPc_COMM` object when present.

Version 2.02

V2.02-001

`DHCPc_CfgTmr()` failed to save the pointer to a DHCP timer in the DHCP info structure. Fixed by saving the DHCP timer pointer.

Version 2.01

N/A

Version 2.00

N/A

Known Problems

Version 2.08.01

Version 2.08

Version 2.07

Version 2.06

Version 2.05

Version 2.04

Version 2.03

Version 2.02

Version 2.01

Version 2.00

N/A

Limitations

001

Address conflict detection and defense is not implemented when an interface in configured with a link-local address (see RFC #3927, section 'Conflict Detection and Defense').

002

This implementation does not check at regular interval for the presence of a DHCP server if an interface is configured with a link-local address.

003

Address conflict detection and defense is not implemented when an interface in configured with a link-local address (see RFC #3927, section 'Conflict Detection and Defense').

Contacts

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