ATCPIP: Bluetooth@5, HaNoi3Q8#, Matkhau@1234

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TLS: end of September

/\* must delete assigned static IP by netsh \*/

netsh interface ipv4 delete neighbor "lwIP\_Ethernet" 192.168.0.200 10-11-22-00-00-00

if change mode (DHCP and Static)

+ reconfigure IP mode in PC

+ remove and re-attach Ethernet cable

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PEx:

- remove ethernet component (tcpip\_links.item, copy from enet\_links.item [DONE, 170810]

- re-add ethernet component (due to missing link in SDK generated folder for S32DS)

- set mac address will keep at enet data link layer 2 [DONE, 170810--170815]

FreeRTOS configuration

set DHCP

set IP address if DHCP off

try to remove <NotGenerateBeanModule>yes</NotGenerateBeanModule> from tcpip.bean

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tcpipConfig.h

lwipcfg.h --> called by ports\

lwipopts.h --> called by tcpip\lwip\src\include\lwip\opt.h

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Inform Veronica to update manifest for rtp, shell to compliance with example lwip

Inform Veronica to update RAM for lwip example

Inform Veronica to update Pex for ENET: duplicate symbol: enetCfg\_txAccelerConfig

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TBoolItem: TypeSpec: typeBool (true, false), typeYesNo (0, 1)

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freeRTOS adjust for lwip Project

configMINIMAL\_STACK\_SIZE --> 200 --> 512

configTOTAL\_HEAP\_SIZE --> 8192 (8KB) --> 49152 (48KB)

CPU core clock: 48M --> 40M

User settings: #define configNUM\_THREAD\_LOCAL\_STORAGE\_POINTERS 2

NewProjects

Delete all folders, except Project Settings and Includes

Copy PEx file from example into new project folder

generate all file from PEx

Edit path and build variables (S32SDK\_PATH, S32\_SDK\_PATH)

Add ${ProjDirPath}/Generated\_Code, ${ProjDirPath}/Sources (for Standard C Compiler and Standard Assembler)

Add ${S32\_SDK\_PATH}/middleware/tcpip folder --> should be added through PEX automatically

Add symbols: MPC5748G, USING\_OS\_FREERTOS

Select OS

tcpip\_main.item (all tabs)

- general

+ Layer2\_DataLink\_enet

set mac

+ Layer3\_IP\_tcpip

set ip

+ Layer4\_Transport\_tcpip

set tcp/udp

+ Layer5\_Application\_

choose apps

- api

- user settings

- shared components

tcpip.bean --> tcpip\_main.item --> (tcpip\_general.item, tcpip\_api.item, tcpip\_usersetting.item, tcpip\_links.item)

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PEx:

@Veronica to update Pex for ENET: duplicate symbol: enetCfg\_txAccelerConfig (Develop)

Include GeneratedCode and Source does not automatically added in PEx (for both C and ASM)

--> use the newest update patch for S32DS PPC

All symbols needed are not automatically generated: CPU\_MPC5748G, USING\_OS\_FREERTOS

Need arch/cc.h (copy from port), lwipopts.h, lwipcfg.h (new header files)

--> users need to manually add by themselves

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TO-DO-NEXT:

Integrate with current lwip example in develop !!!

- Remove symbol LWIP\_MAC\_ADDR\_BASE in setting

- Change build variables --> local path

- Increase RAM

Check lwip\_mpc5748g in develop (binhbt did not check)

- Change enetif, ENET\_DRV\_ReadFrame, ENET\_DRV\_GetTransmitStatus

--> not work with develop ! no response (even with static IP)

--> Radu said CLOCK of SDK

Test PEx TCPIP with lwip example (test.c) in ASDK-5984-ear-081

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FILE CHANGES

tcpip

ksdk\_manifest.xml (add enet source for tcpip)

enetif.c --> netif->hostname = LWIP\_NETIF\_HOSTNAME\_TEXT;

Common error when Integrate API JAVA with PEx

%lauchExt class file must be put in the same directory as the original chg file (for example, tcpip\_update.chg is called from tcpip.chg original --> put in the directory of tcpip.chg)