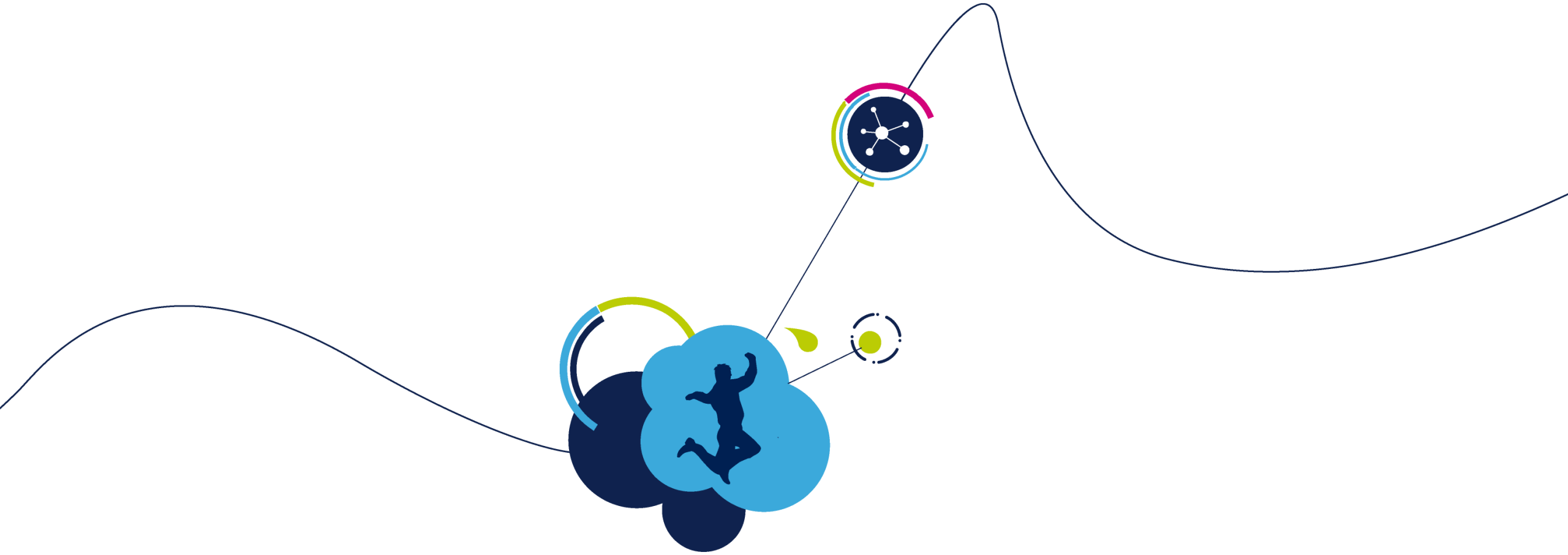

Demo : Running sample code on the STM32L476 Nucleo Board

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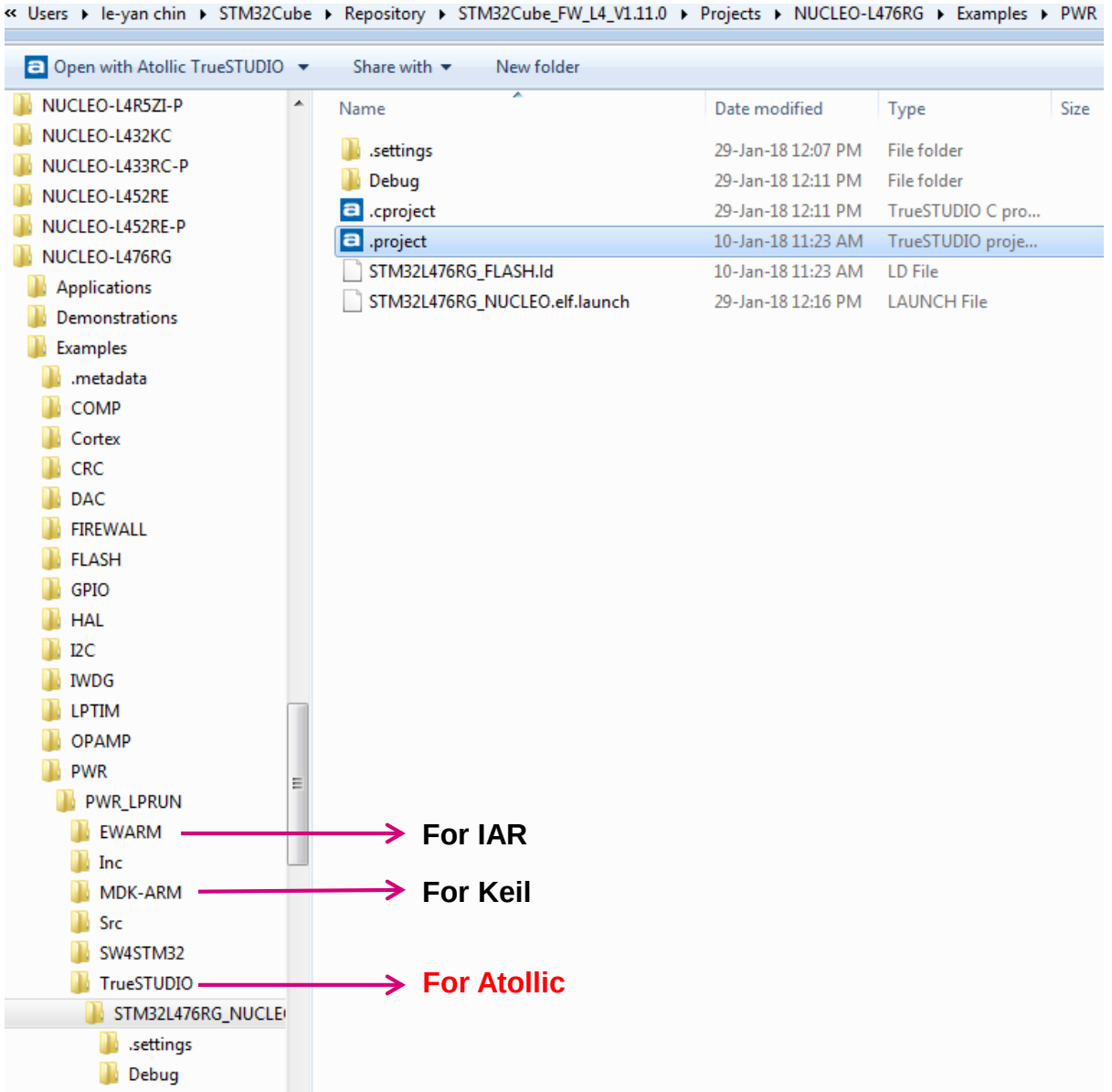
Running sample code: LPRUN

- Objective:
  - Understand where to look for example codes in STM32Cube
  - Run low power run mode “PWR_LPRUN” example code on STM32L476 Nucleo board
- Description:
  - Example code will enter LPRUN mode after 5 seconds from start up, LED LD2 will turn off from toggle when entering into LPRUN mode
  - User push button B1 allows user to exit from LPRUN mode
- Procedure:
  - Use window explorer to locate \STM32Cube\Repository subdirectory
    - eg> c:\users\le-yan chin\STM32Cube\Repository
  - Check for the package L4 firmware
    - eg> \..\STM32Cube_FW_L4_V1.11.0
  - Copy the whole directory content to other place to retain the original firmware package
  - Go to respective \..\Projects you copied and click into \NUCLEO-L476RG\Eamples subdirectory
    - eg> C:\Users\..\STM32Cube_FW_L4_V1.11.0\Projects\NUCLEO-L476RG\Examples
  - Select STM32L476RG_NUCLEO from TrueSTUDIO in \..\Examples\PWR\PWR_LPRun \TrueSTUDIO subdirectory
    - eg> C:\Users\..\Projects\NUCELO-L496RG\Examples\PWR\LPRUN\TrueSTUDIO\STM32L476RG_NUCLEO



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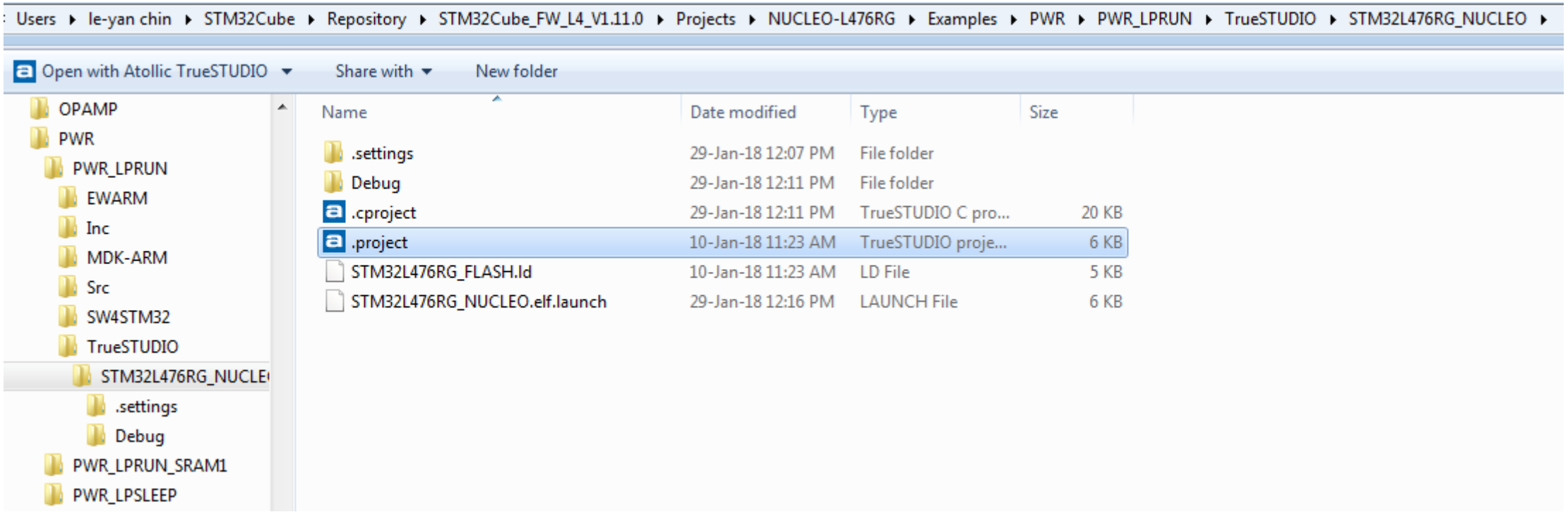
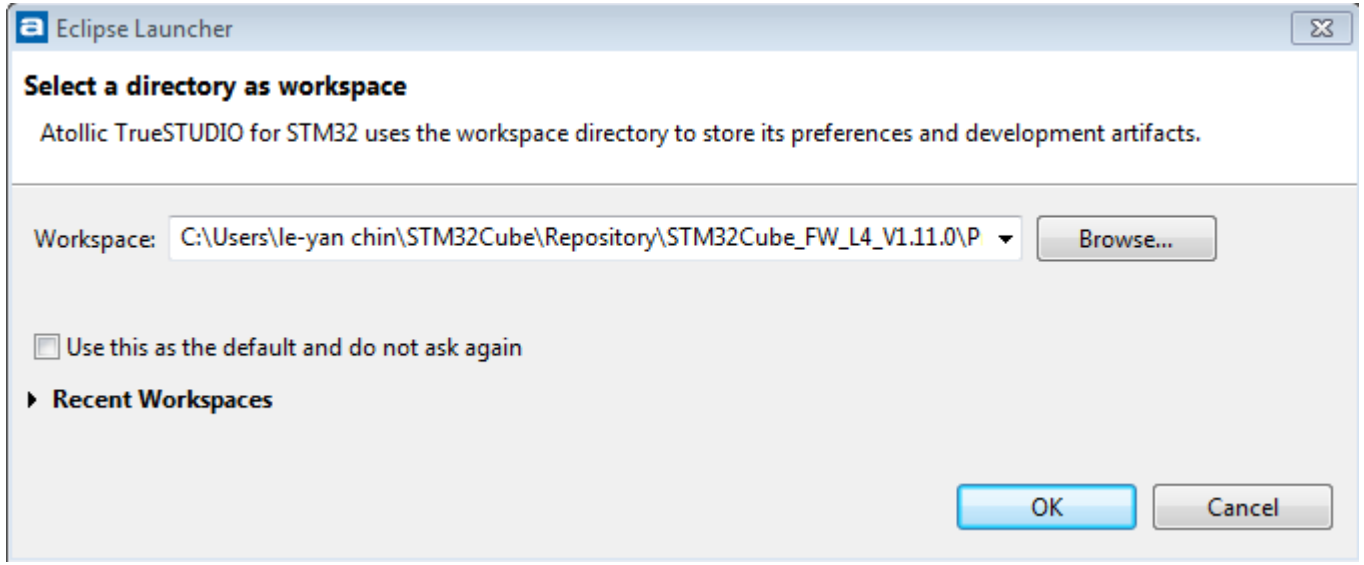
Running sample code: LPRRUN (cont'1)

- Procedure:
  - Click to run the ".project" for TrueSTUDIO toolchain platform



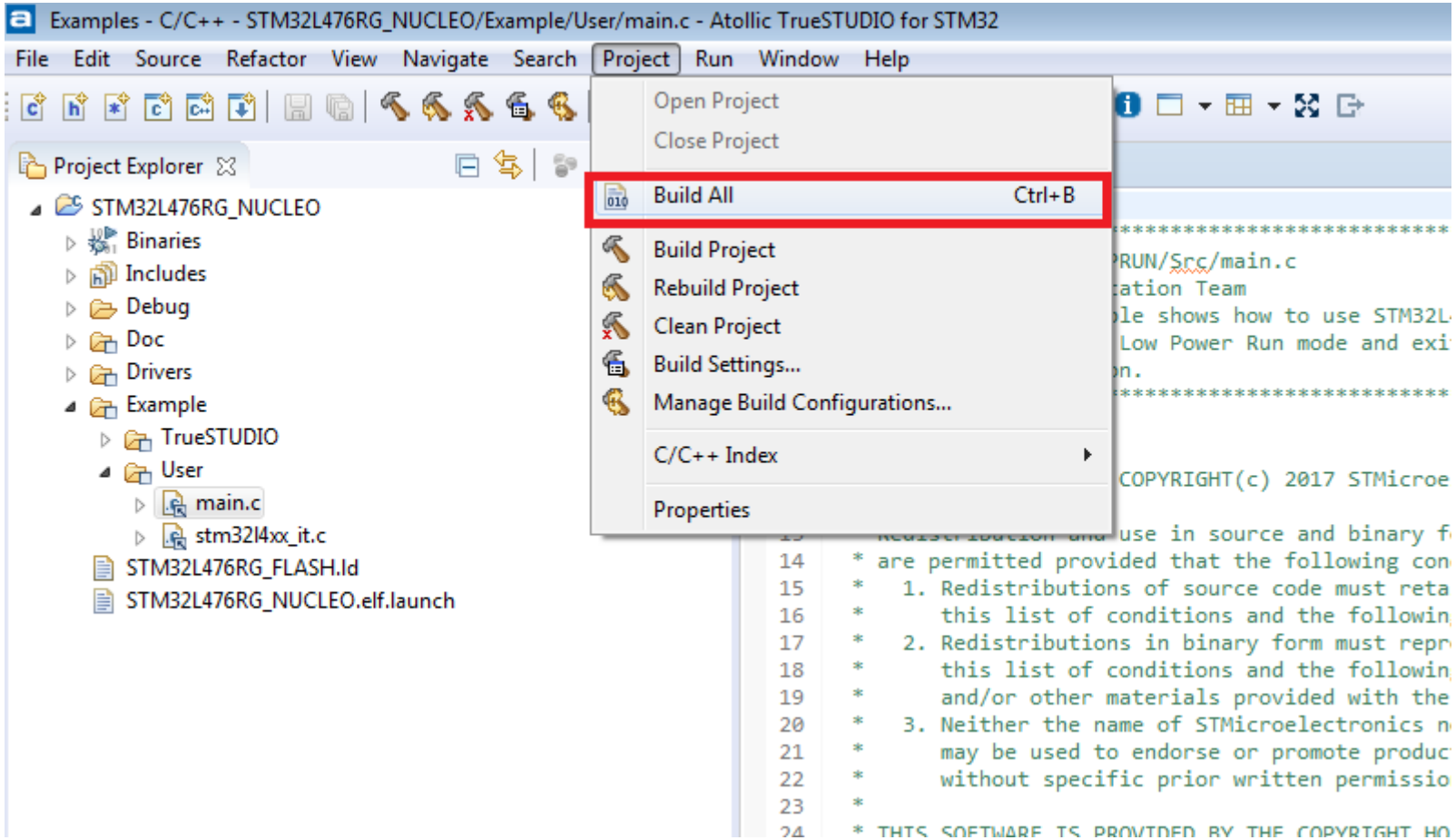
Running sample code: LPRUN (cont'2)

- Procedure:
  - Specify the workspace you want to start Atollic TrueSTUDIO project
    - Eg : \..\your repository copied directory working project



Running sample code: LPRUN (cont'3)

- Procedure:
  - Click on the "Project" drop down menu and select "Build All", or press Ctrl+B



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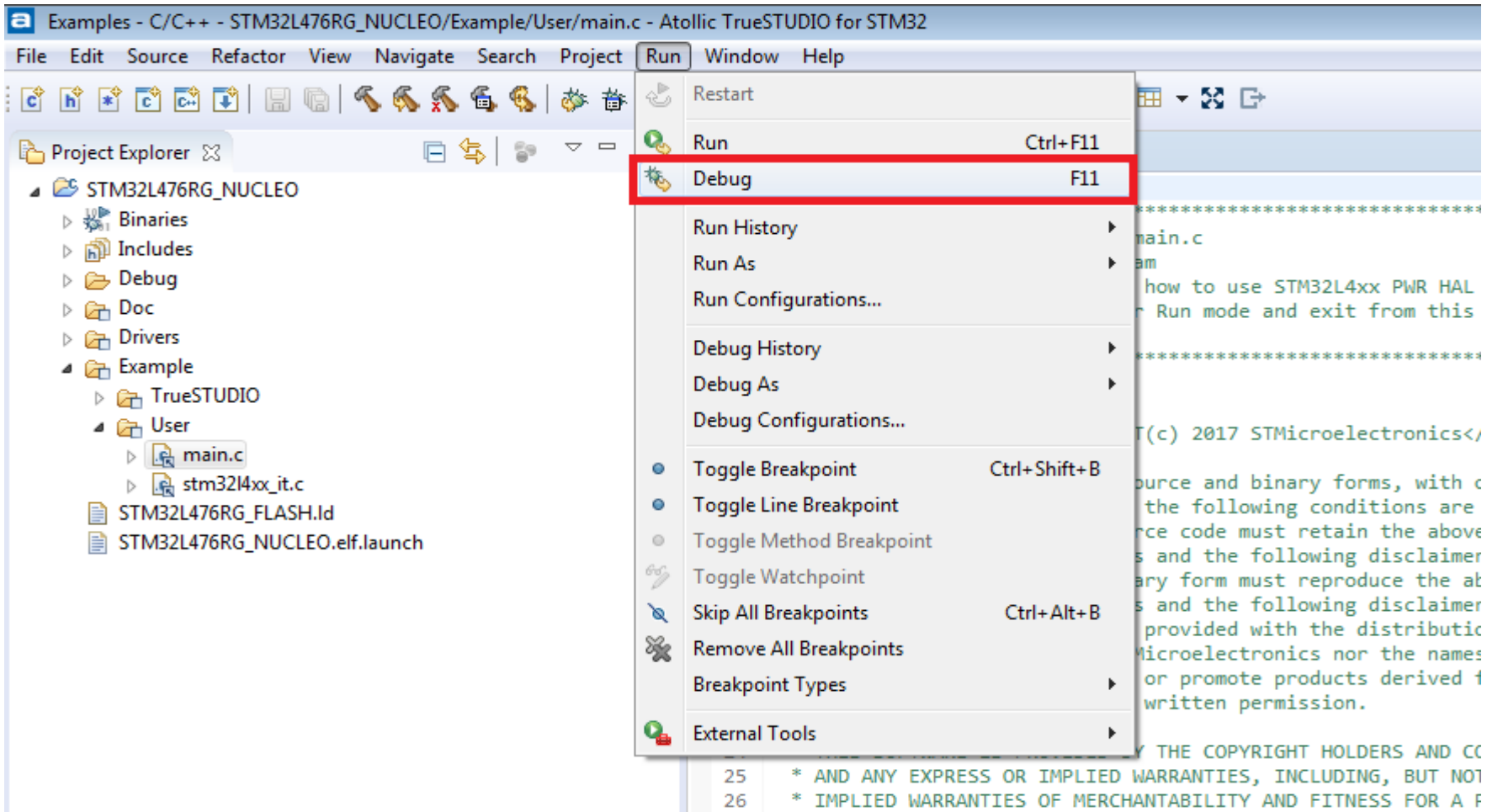
Running sample code: LPRUN (cont'4)

- Procedure:
  - Click on the "Run" drop down menu and select "Debug", or press F11
    - Hint : ensure the Nucleo-L476 is connected to the PC and ready to be used.



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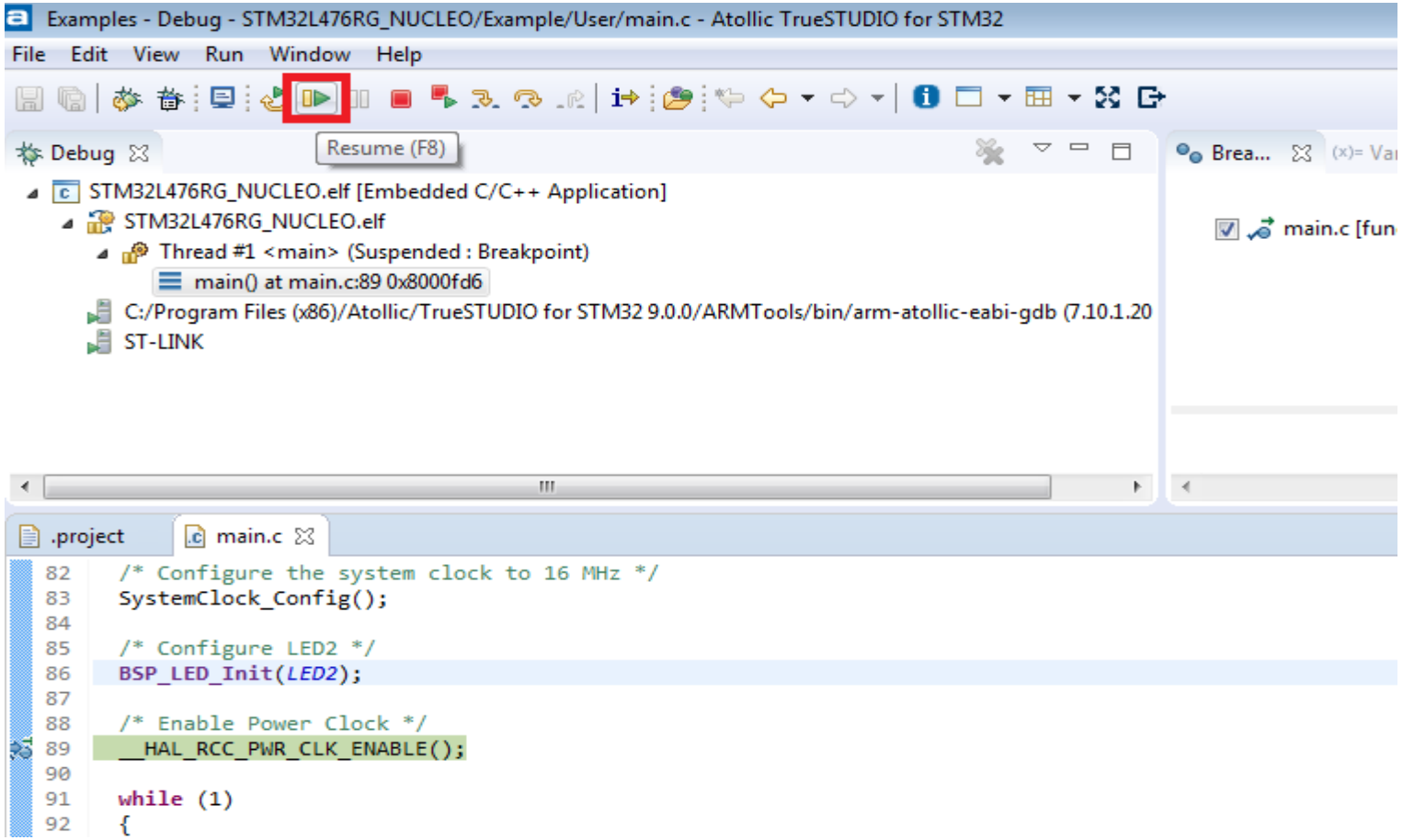
Running sample code: LPRUN (cont'5)

- Procedure:
  - In debug screen select "  " from task bar to run the codes



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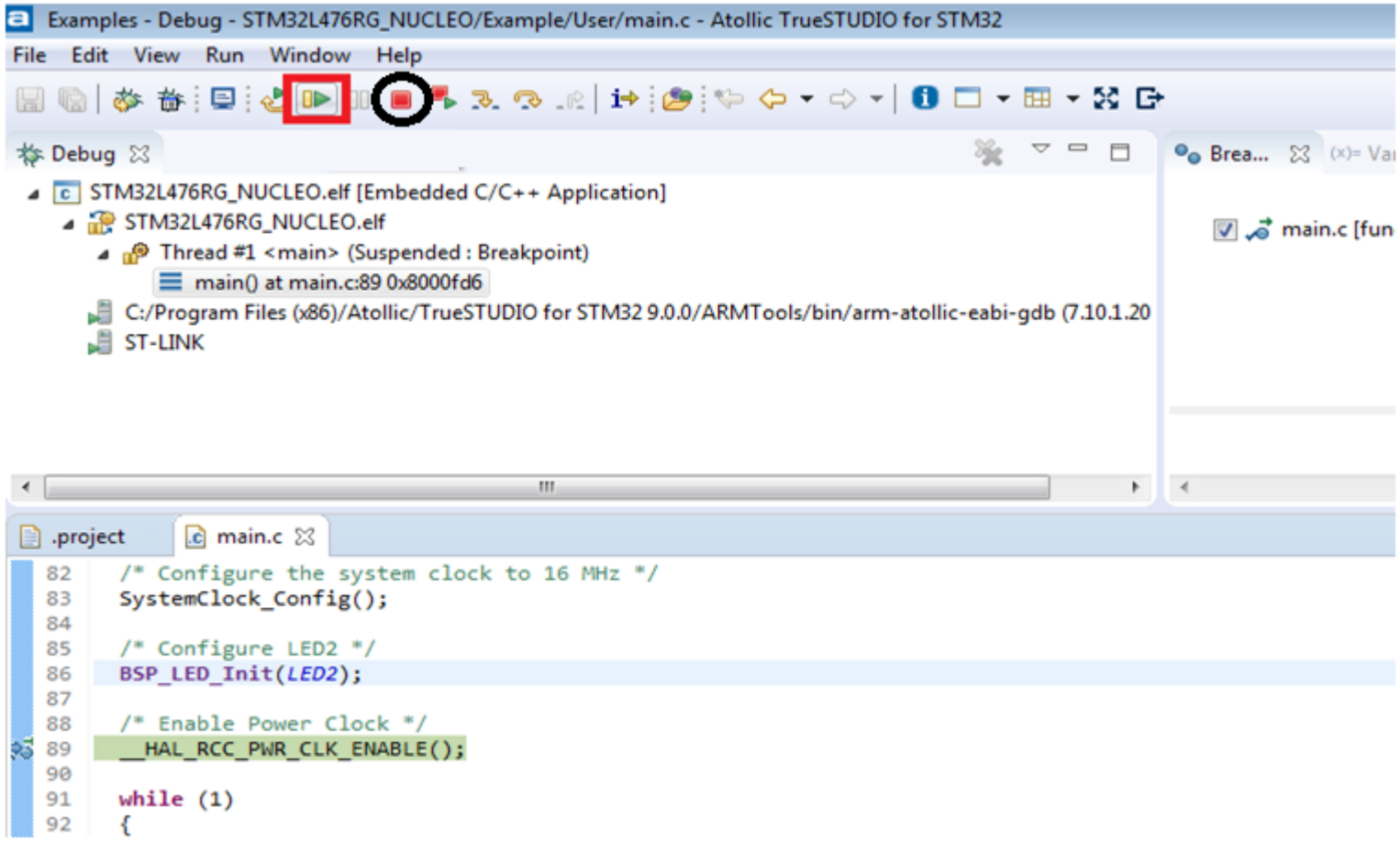
Running sample code: LPRUN (cont'6)

- Procedure:
  - To stop debug mode select “ ■ ”



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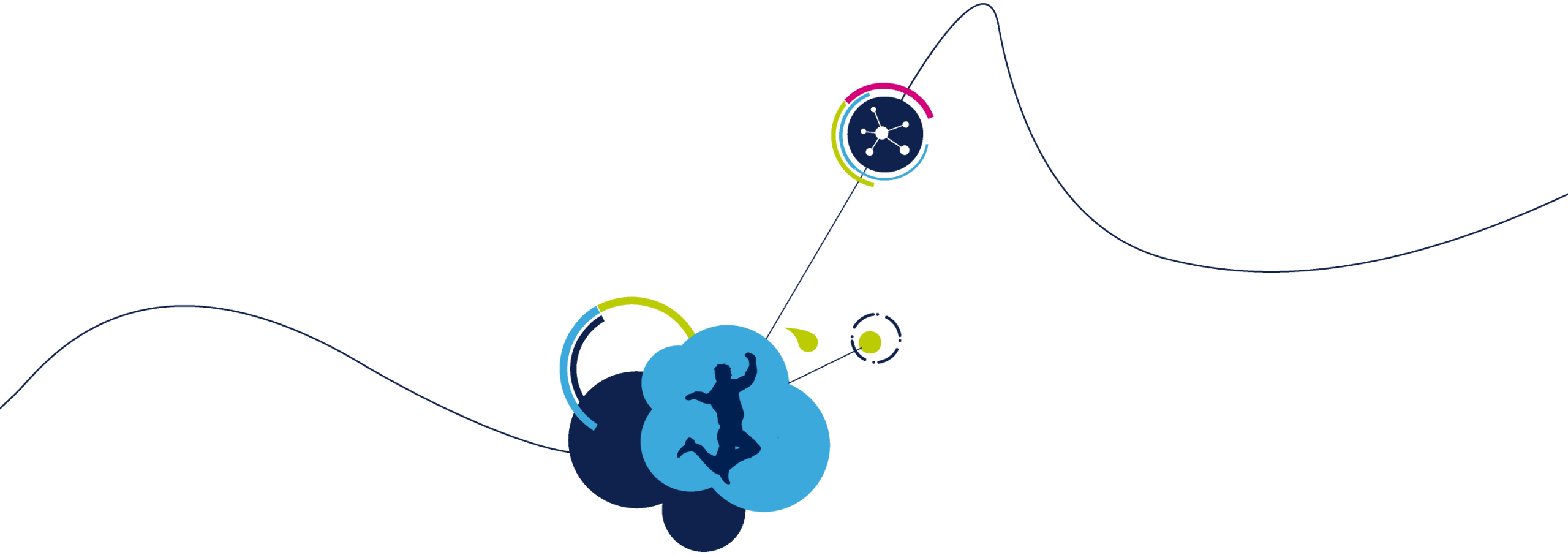

Demo : Running sample code on the STM32L4R5ZI Nucleo Board

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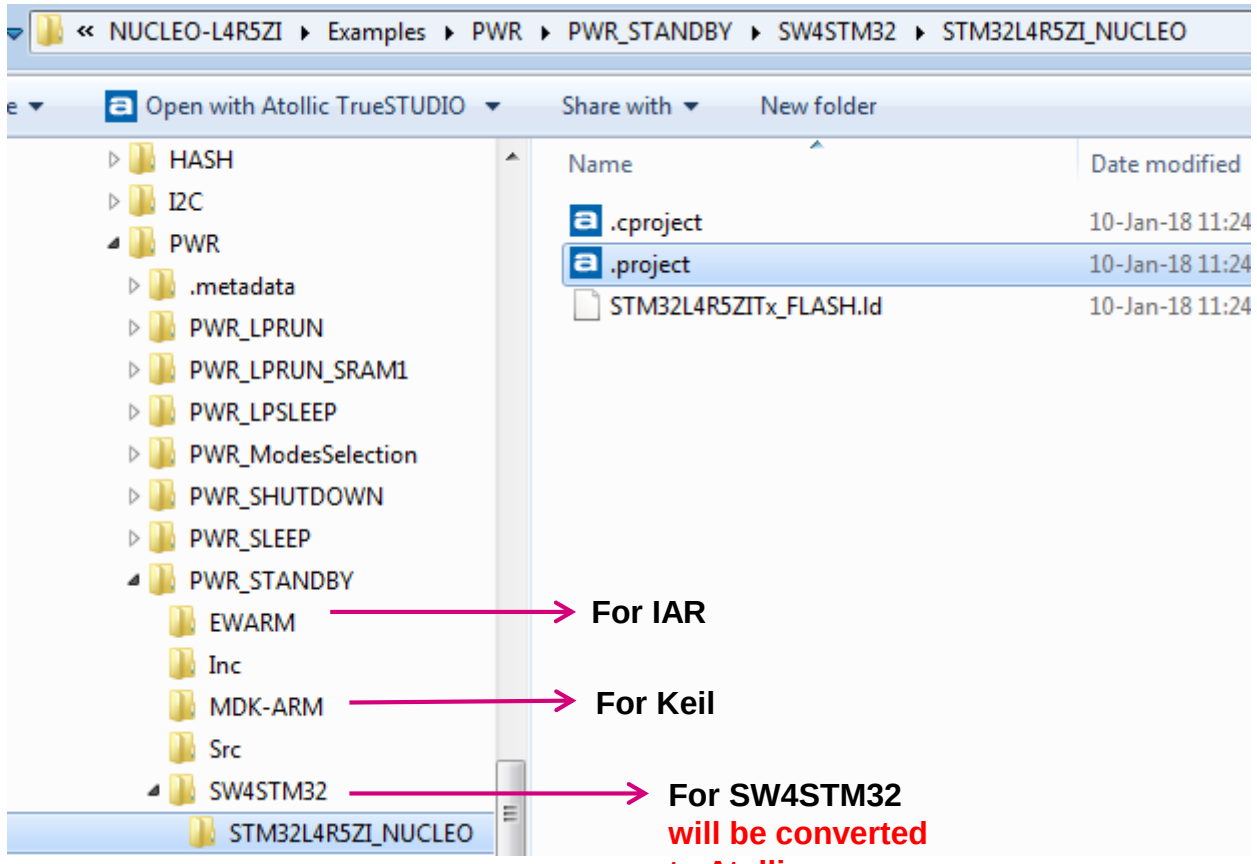
Running sample code: STANDBY

- Objective:
  - Understand where to look for example codes in STM32Cube
  - Run standby mode “PWR_STANDBY” example code on STM32L4R5ZI Nucleo board
- Description:
  - Example code will enter STANDBY mode after 5 seconds from start up, LED LD1 will turn off from toggle when entering into STNADBY mode
  - User push button B1 allows user to exit from STANDBY mode
- Procedure:
  - Use window explorer to locate \STM32Cube\Repository subdirectory
    - eg> c:\users\le-yan chin\STM32Cube\Repository
  - Check for the package L4 firmware
    - eg> \..\STM32Cube_FW_L4_V1.11.0
  - Copy the whole directory content to other place to retain the original firmware package
  - Go to respective \..\Projects you copied and click into \NUCLEO-L4R5ZI\Eamples subdirectory
    - eg> C:\Users\..\STM32Cube_FW_L4_V1.11.0\Projects\NUCLEO-L4R5ZI\Examples
  - Select STM32L4R5ZI_NUCLEO from SW4STM32 in \..\Examples\PWR\PWR_STANDBY\SW4STM32 subdirectory
    - eg> C:\Users\..\Projects\NUCELO-L4R5ZI\Examples\PWR\PWR_STANBY\SW4STM32\STM32L4R5ZI_NUCLEO



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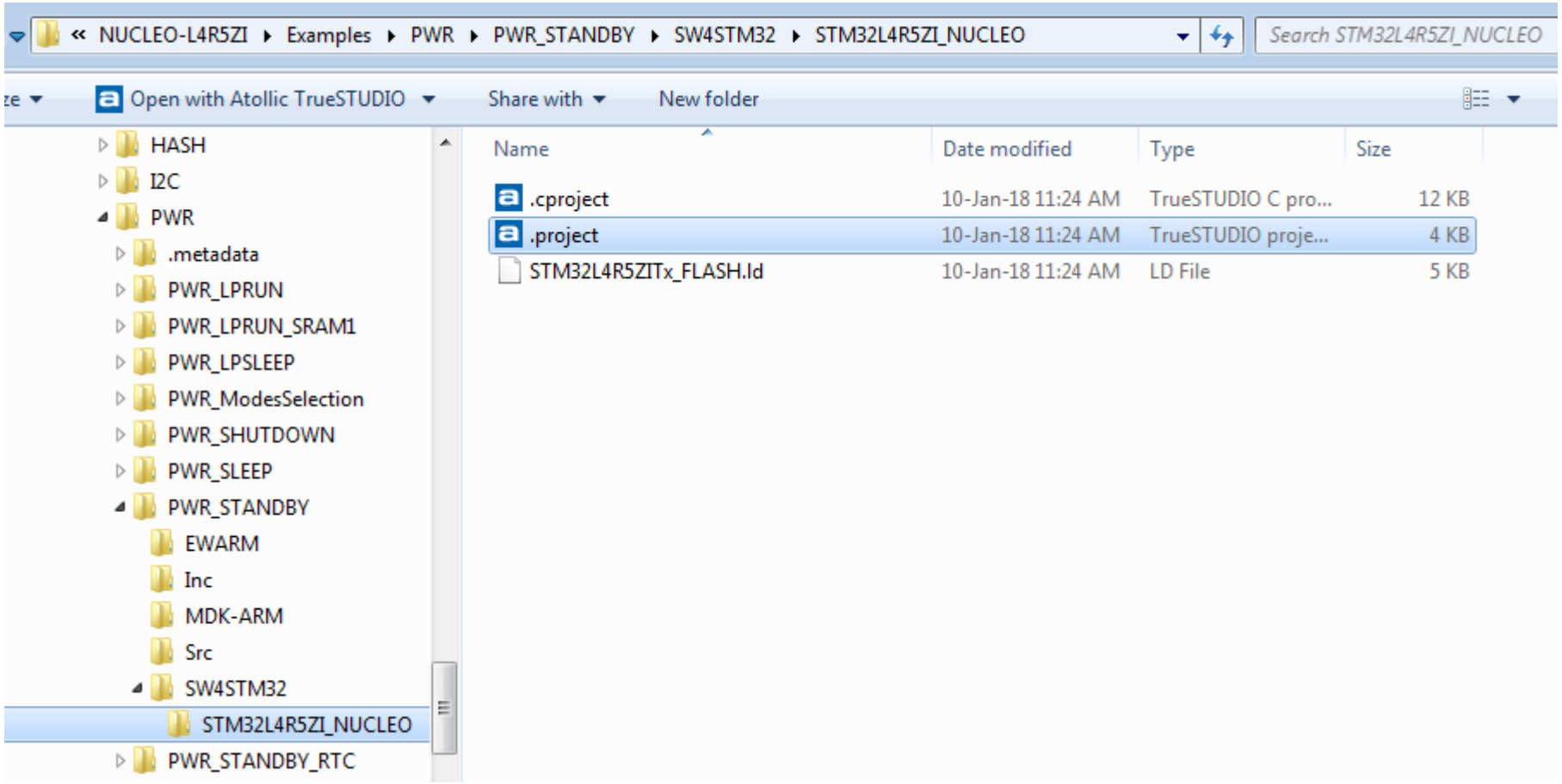
Running sample code: STANDBY (cont'1)

- Procedure:
  - Click to run the ".project" for TrueSTUDIO toolchain platform



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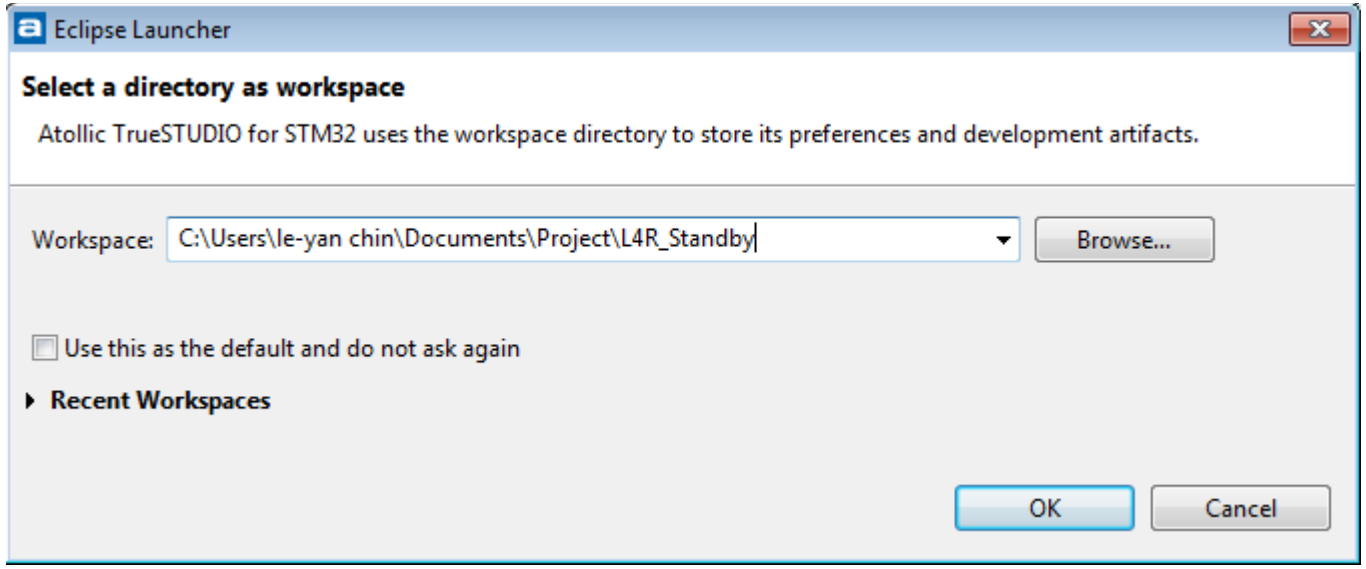
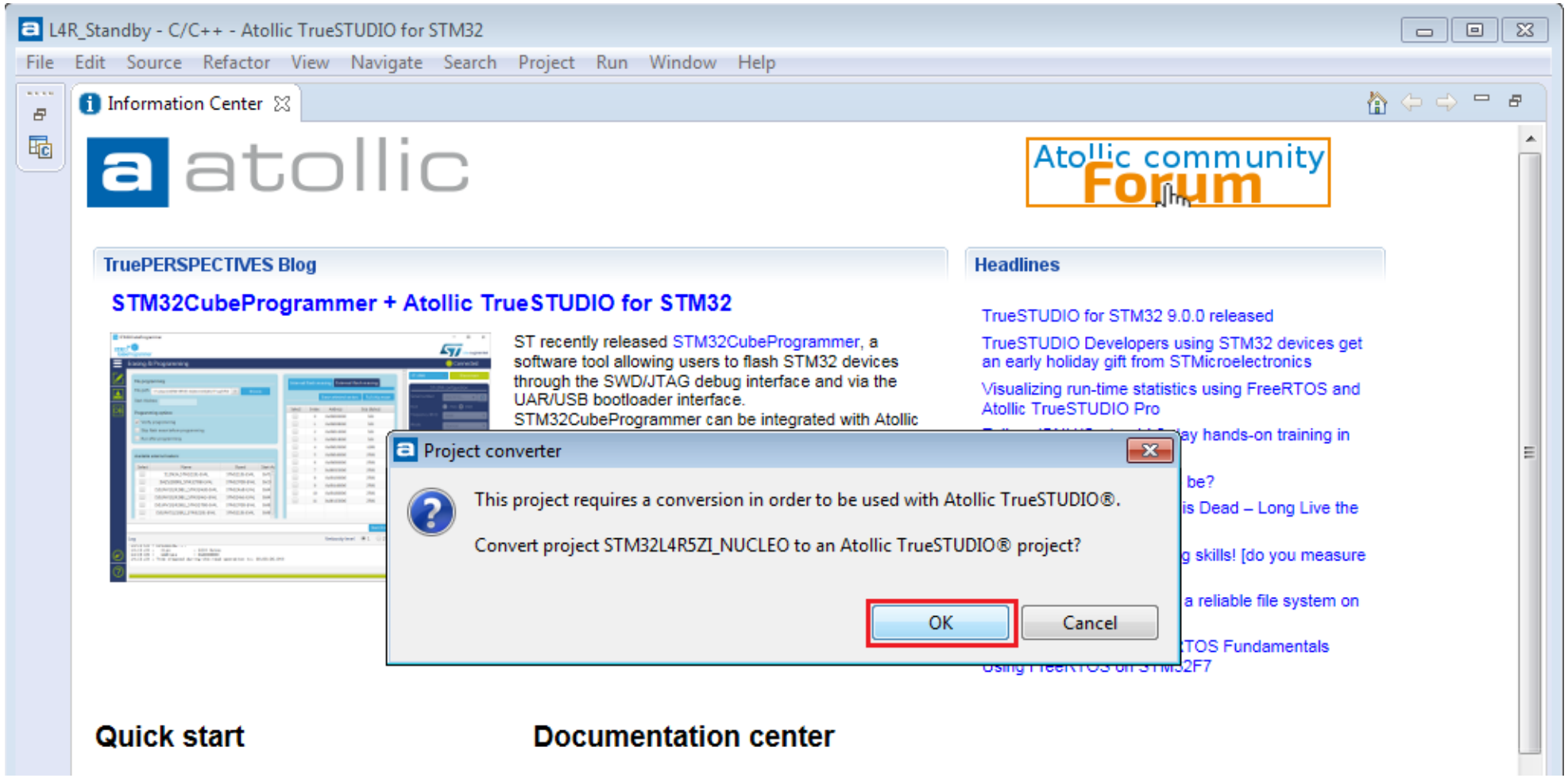
Running sample code: STANDBY (cont'2)

- Procedure:
  - Specify the workspace you want to start Atollic TrueSTUDIO project
    - Eg : \..\your repository copied directory working project,,



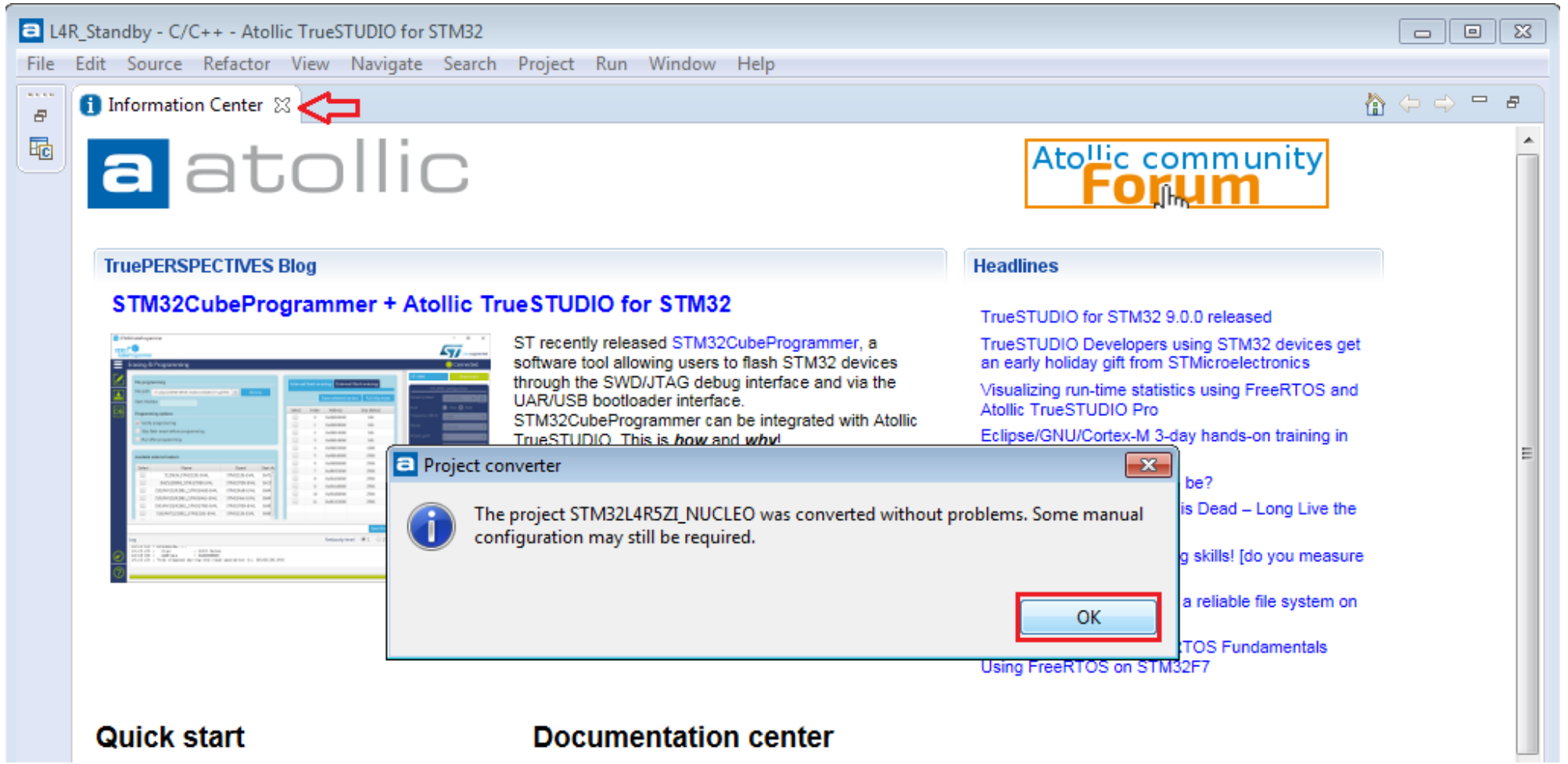
Running sample code: STANDBY (cont'3)

- Procedure:
  - Click "OK" to convert from SW4STM32 project to Atollic TrueSTUDIO project



Running sample code: STANDBY (cont'4)

- Procedure:
  - Click "OK" to acknowledge for some manual configuration
  - Close the "Information Center" menu



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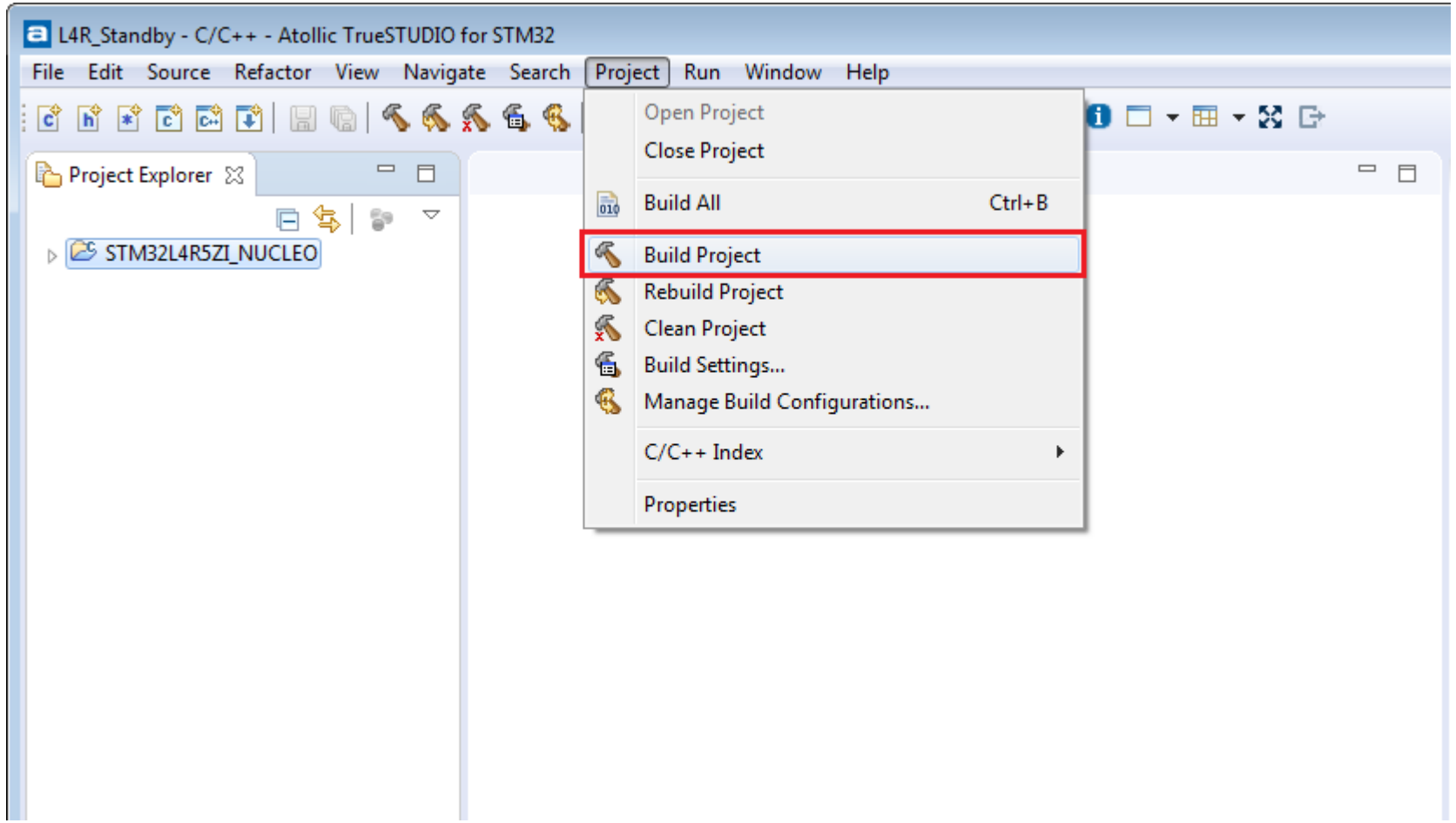
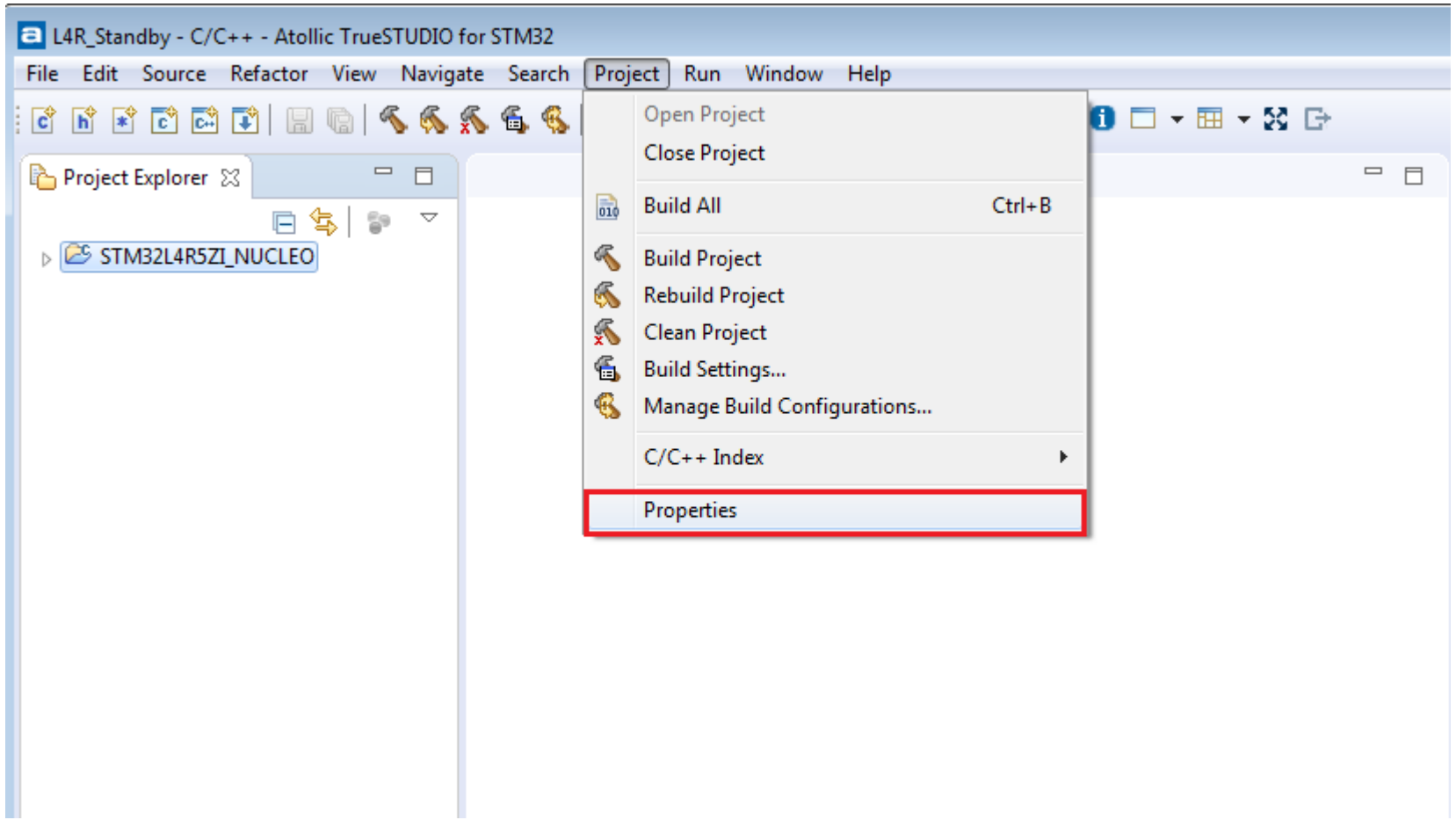
Running sample code: STANDBY (cont'5)

- Procedure:
  - Click on the "Project" drop down menu and select "Build Project"



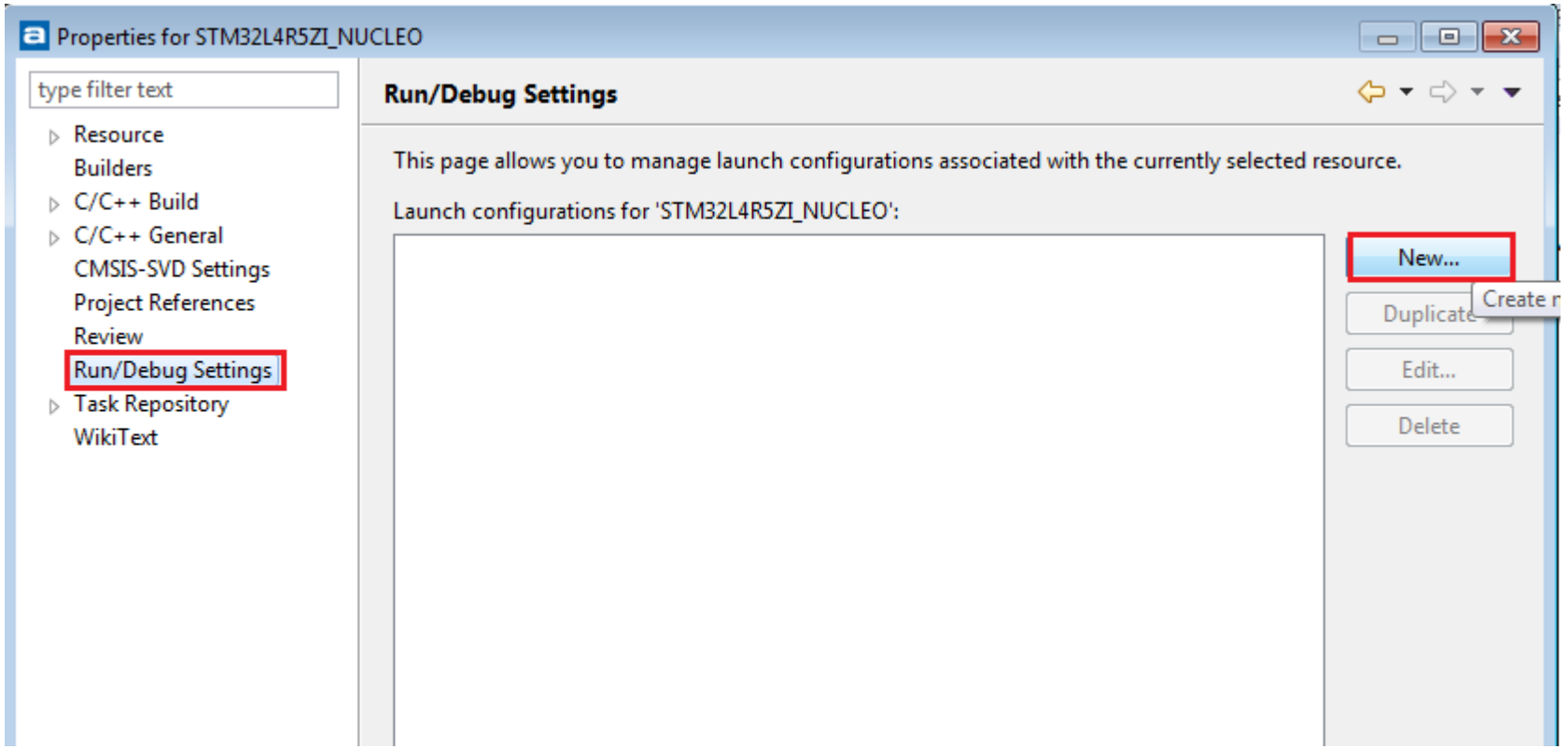
Running sample code: STANDBY (cont'6)

- Procedure:
  - Click on the "Project" drop down menu and select "Properties" to manual configure debug file for ST-Link debugging



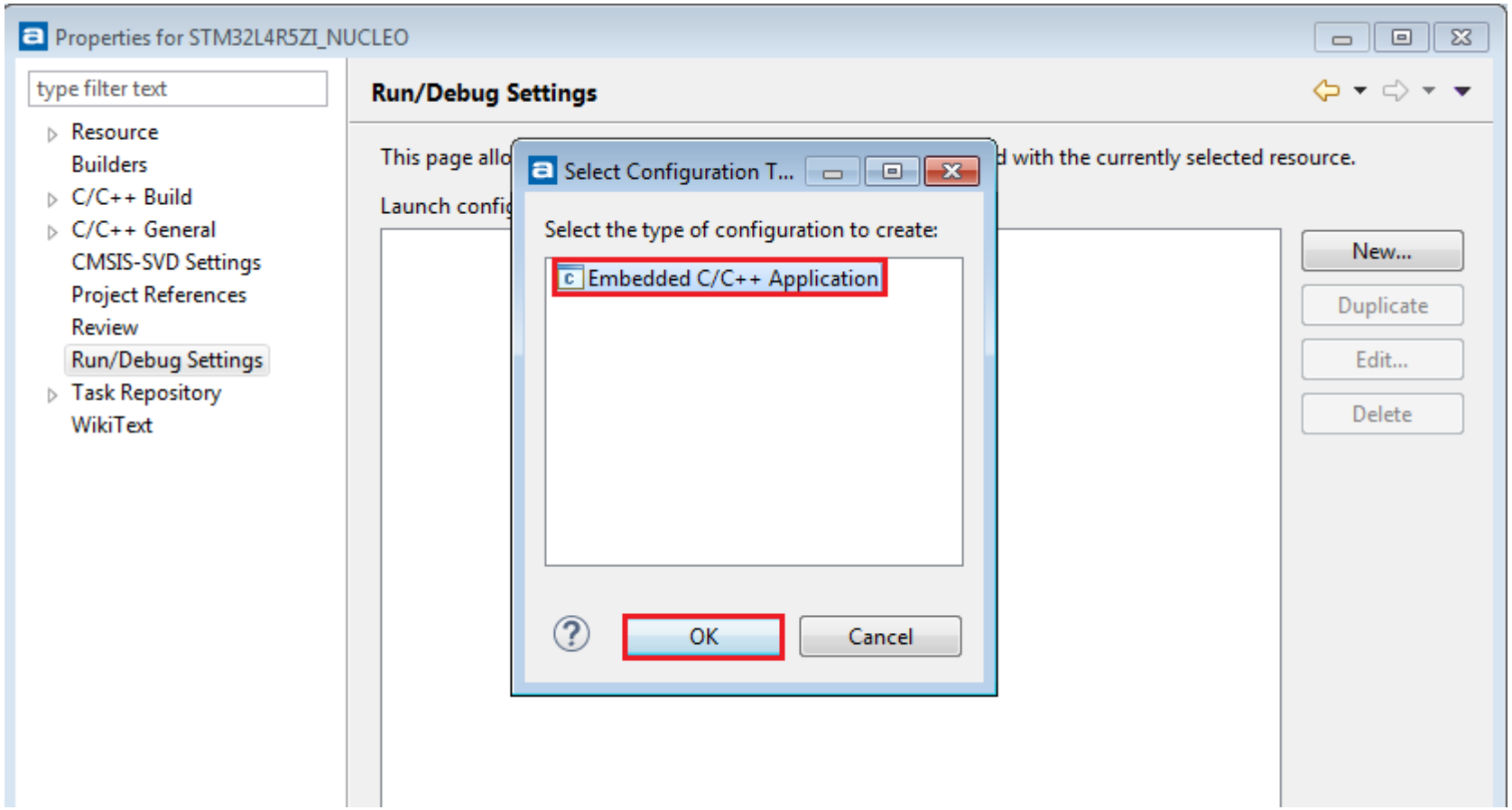
Running sample code: STANDBY (cont'7)

- Procedure:
  - Select "Run/Debug Settings" from left menu and click "New" to create new launch configuration



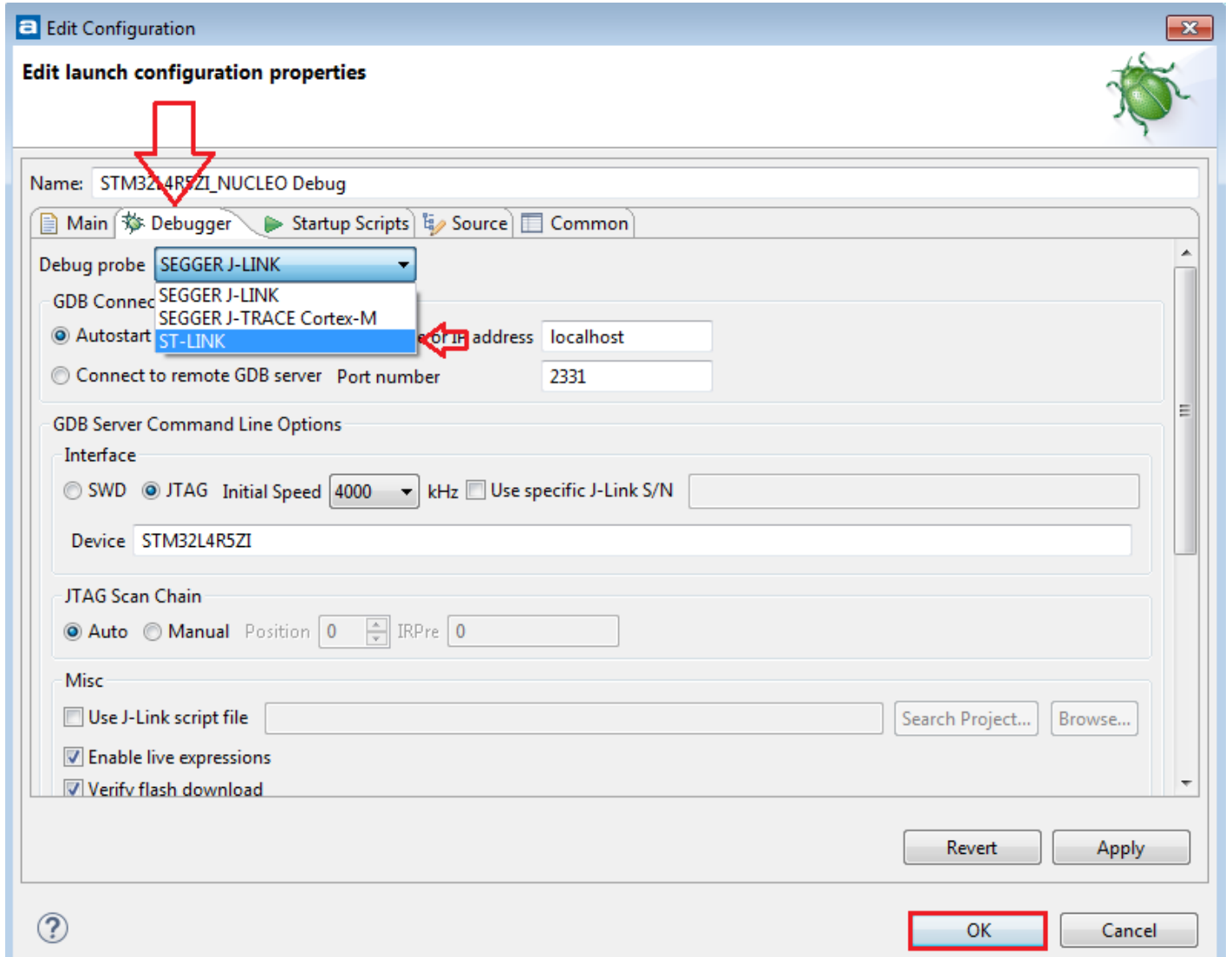
Running sample code: STANDBY (cont'8)

- Procedure:
  - Click on "Embedded C/C++ Application"
  - Click "OK"



Running sample code: STANDBY (cont'9)

- Procedure:
  - Click on "Debugger" tab and select "ST-LINK", then press "OK"



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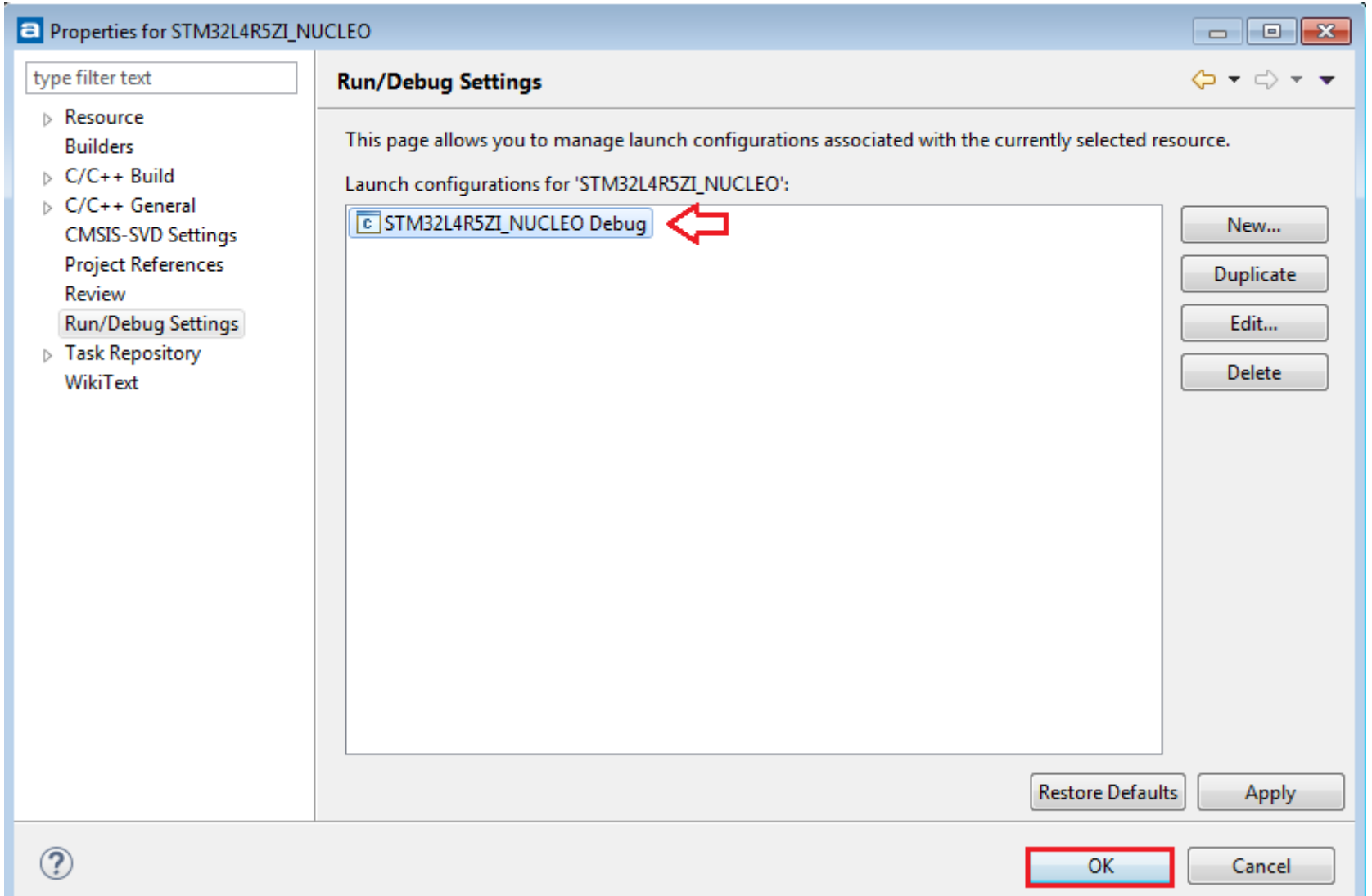
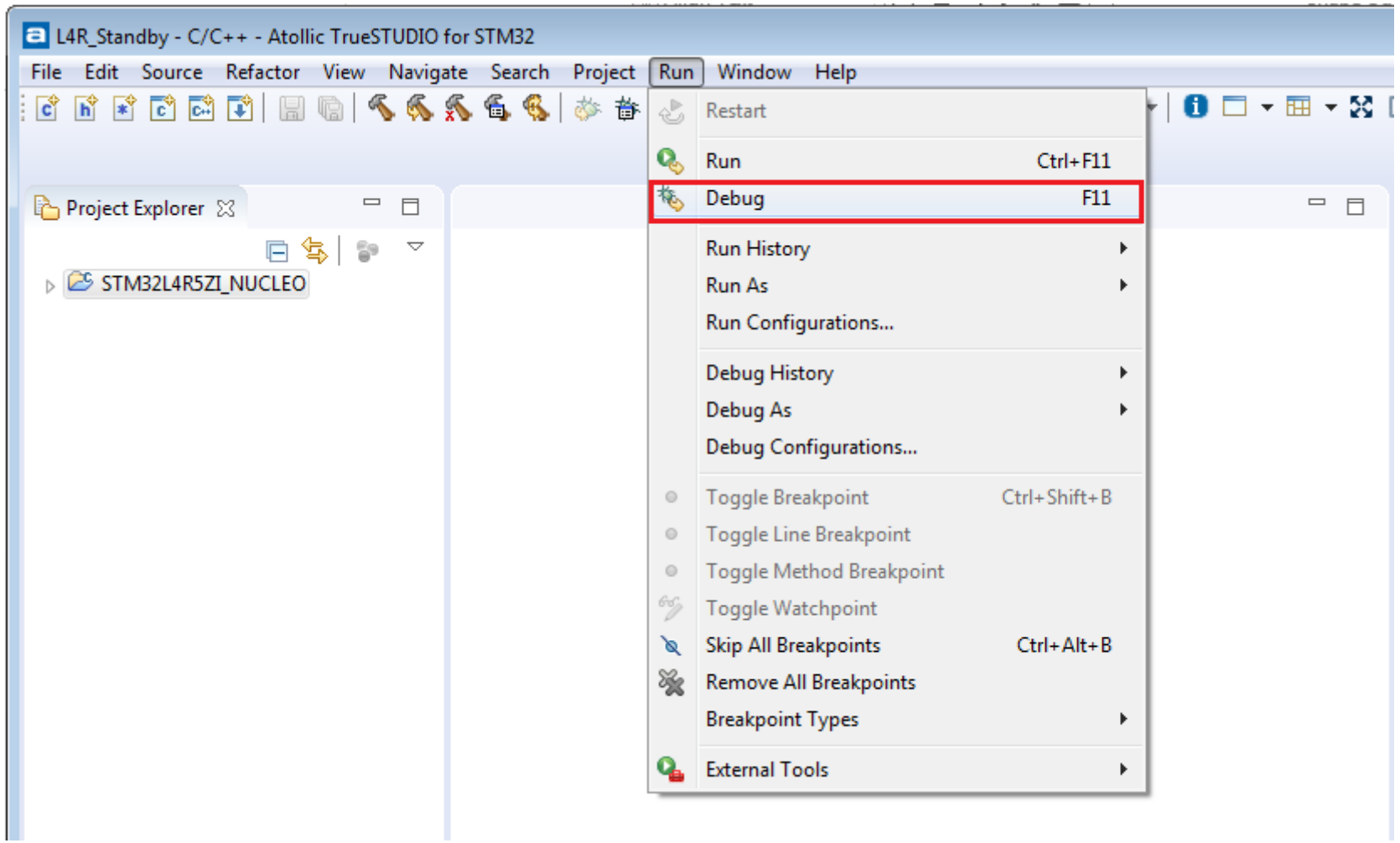
Running sample code: STANDBY (cont'10)

- Procedure:
  - Ensure the debugger source file is appeared and then press "OK"



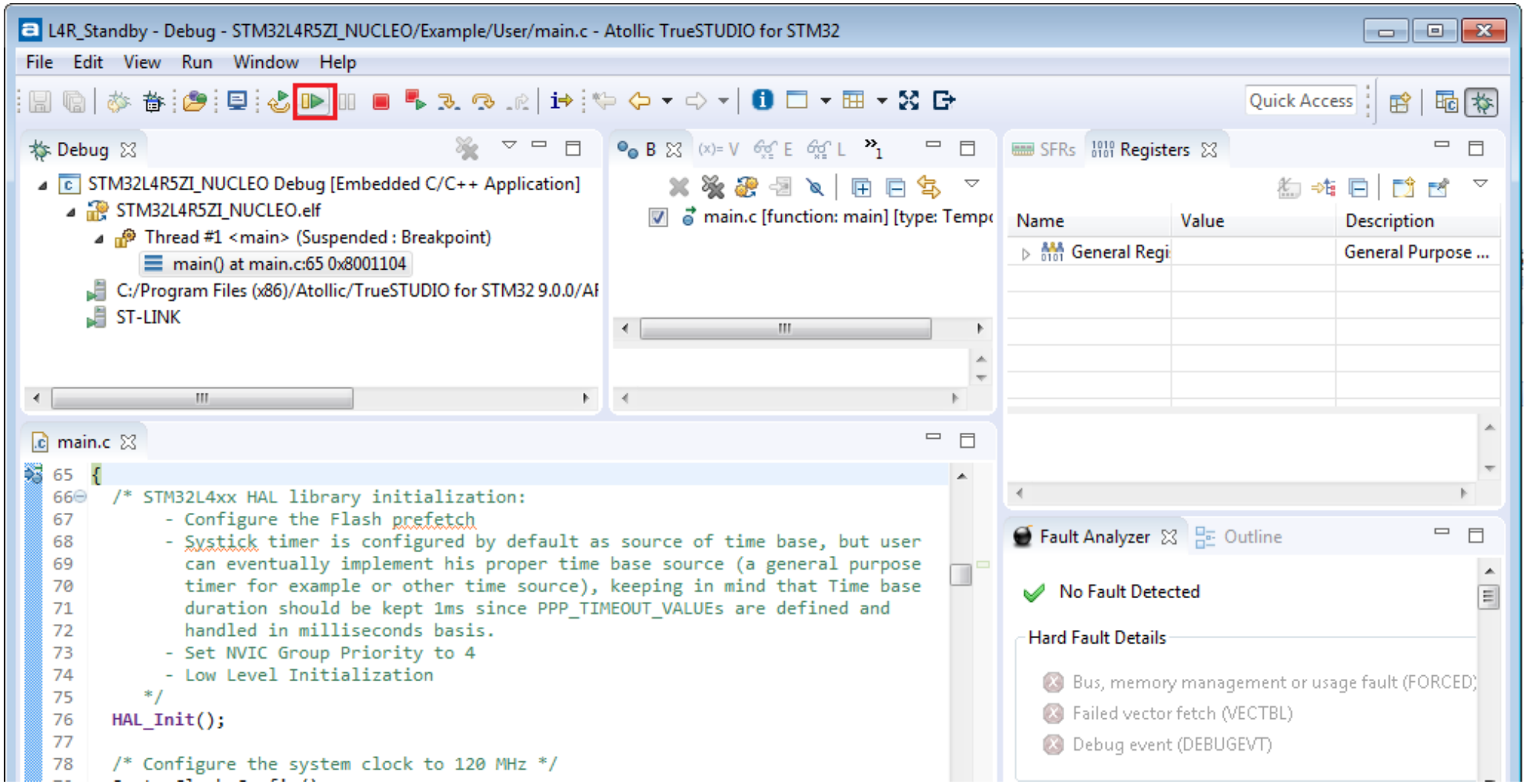
Running sample code: STANDBY (cont'11)

- Procedure:
  - Click on the "Run" drop down menu and select "Debug", or press F11
    - Hint : ensure the Nucleo-L4R5ZI is connected to the PC and ready to be used.



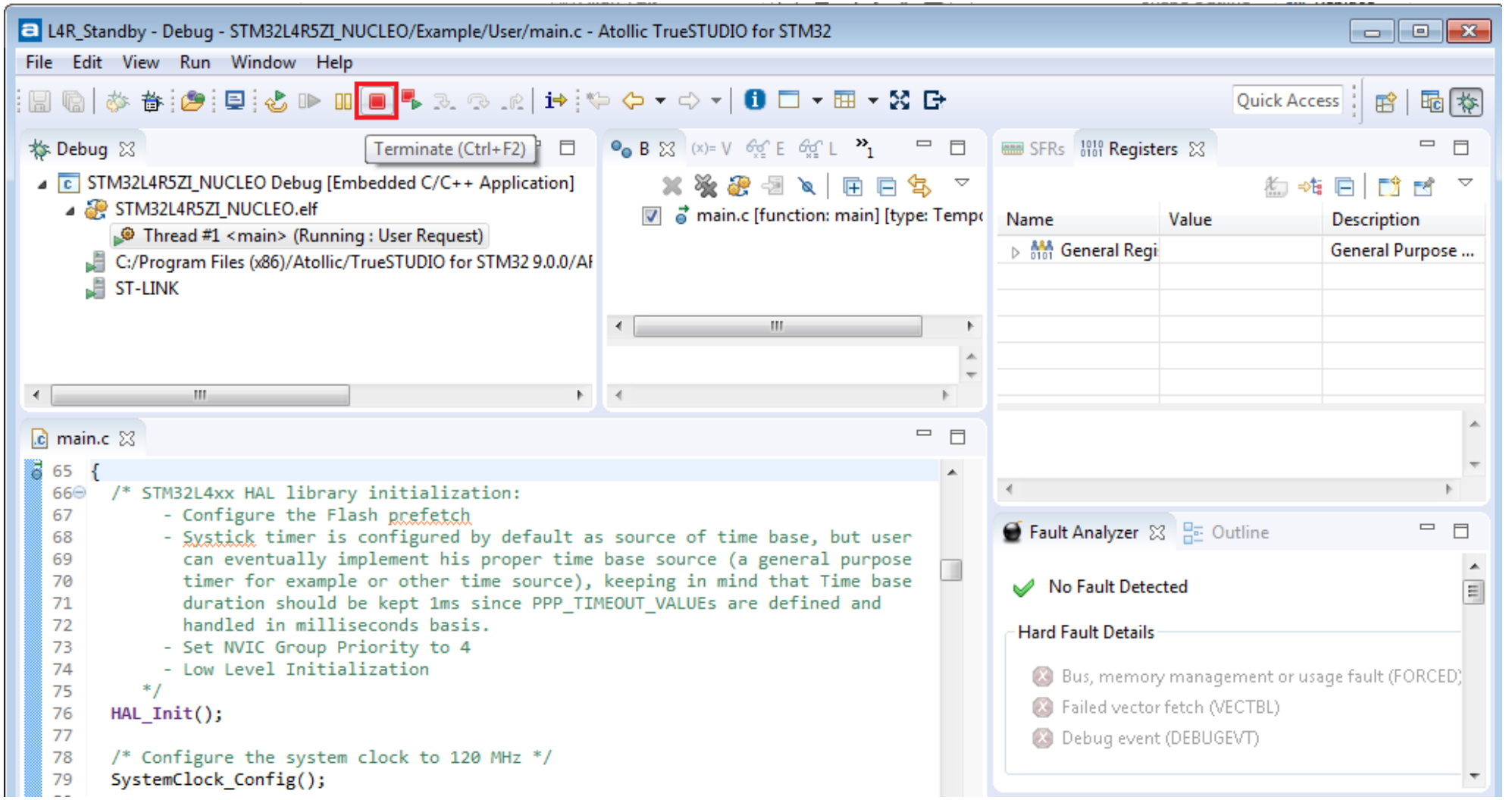
Running sample code: STANDBY (cont'12)

- Procedure:
  - In debug screen select "  " from task bar to run the codes



Running sample code: STANDBY (cont'13)

- Procedure:
  - To stop debug mode select " ,



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