Quartus IP / Questa Licensing

Last updated 8/12/26

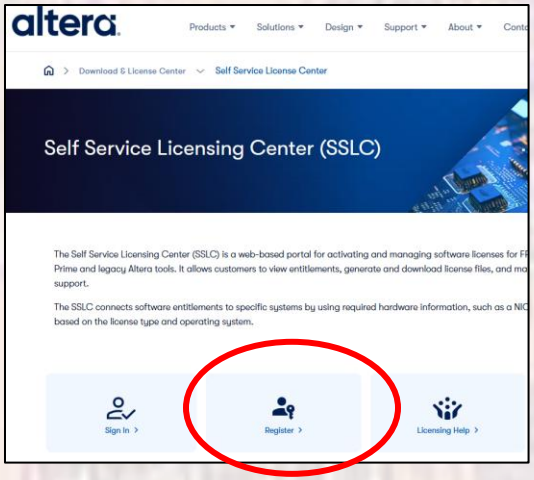
Licensing Overview

- The 25.1 Lite version of Quartus does not require a license
- Questa requires a license (free)
- Special IP (NIOSV-x) require licenses (free)

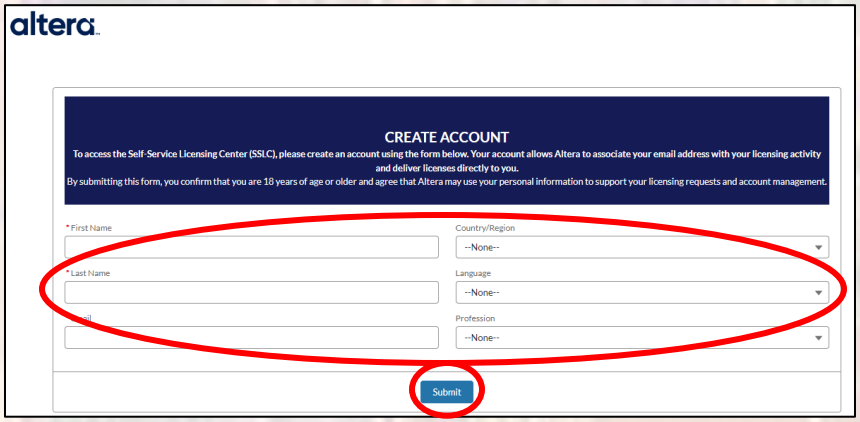
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Account Setup

- Go to: https://www.altera.com/SSLC
  - Register Account



  - Fill in the boxes
    - Use your MSOE email

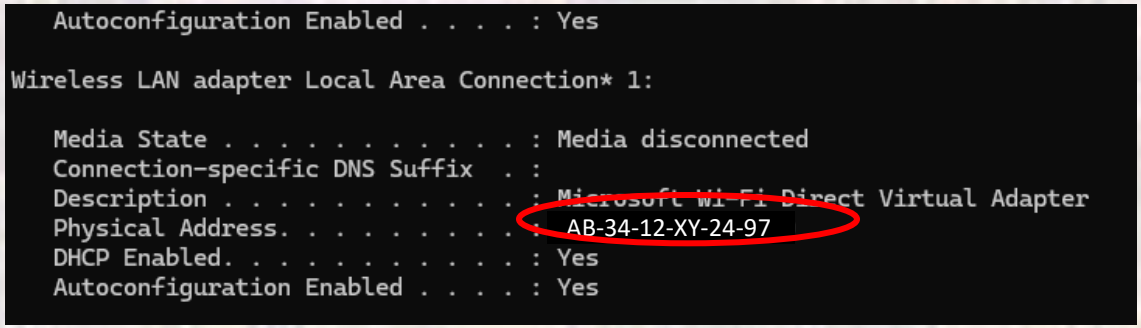


  - Submit
  - Wait for email confirmation

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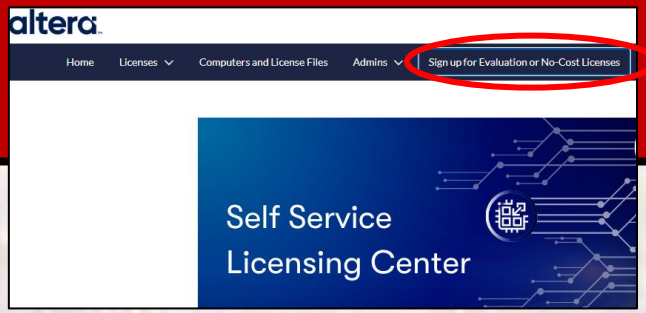
License pre-work

- The licenses are tied to your computer
  - Uses the network interface card Physical Address
    - Open a Command Prompt
    - Type: ipconfig /all
    - Scroll to the Wireless Lan adapter Local Area Connection* 1:
    - Save the Physical Address (without the dashes)
      - AB3412XY2497 yours will be different
      - This is your Primary Computer ID (for Altera)

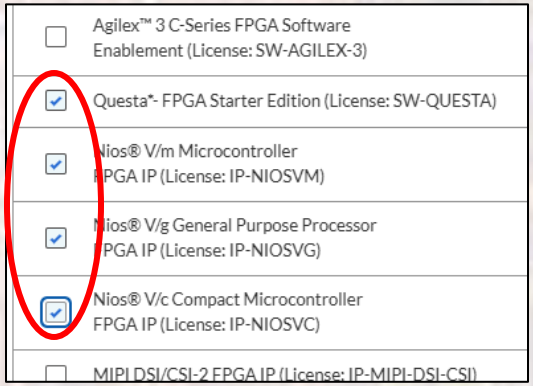


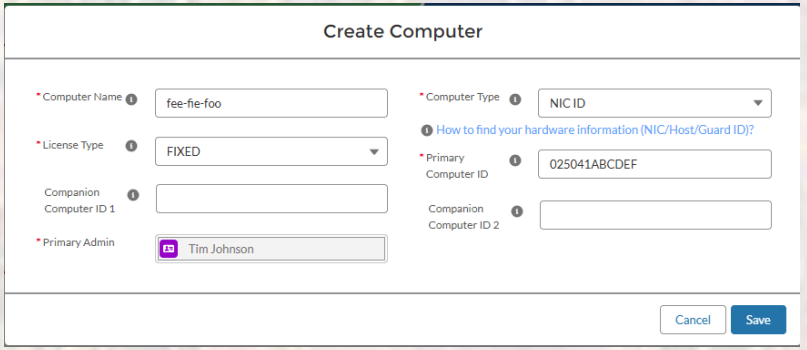
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Create License File



- Go to: https://www.altera.com/SSLC
  - Sign in
  - Select Sign-up for Evaluation or No Cost licenses
  - Check the 4 boxes
    - Select Next at the bottom
  - Create a new computer
    - name – your choice
    - license type – FIXED
    - companion – ignore
    - primary admin – should be filled in
    - computer type – NIC ID
    - Primary Computer ID – from ipconfig
    - Companion computer id – ignore
  - Save
    - Pops you back out to the computer selection window
  - Choose an existing computer – the one you just created
    - Check the agree box
    - Generate
  - You will get an email with the license file attached





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License File Access

- Ignore the directions in the email – use these
- Download the license file from the altera email
  - Copy it to C:/Users/your_usr_name/
  - Verify C:/Users/your_usr_name/xxx_License.dat (your file name will be different)
- Type environment variables in the Windows search box
- Select Environment Variables at the bottom of window:
- Under User variables select new (NIOS-V IP)
  - variable: LM_LICENSE_FILE
  - value: C:/Users/your_usr_name/xxx_License.dat (your file name will be different)
- Under User variables select new (Questa)
  - variable: SALT_LICENSE_SERVER
  - value: C:/Users/your_usr_name/xxx_License.dat (your file name will be different)
- Under System variables select new (NIOS-V IP)
  - variable: LM_LICENSE_FILE
  - value: C:/Users/your_usr_name/xxx_License.dat (your file name will be different)
- Under System variables select new (Questa)
  - variable: SALT_LICENSE_SERVER
  - value: C:/Users/your_usr_name/xxx_License.dat (your file name will be different)

only user or system????

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License File Verification

- Questa
  - Go to C:\altera_lite\25.1std\questa_fse\win64
  - Select questasim.exe
  - If it starts – the license is good
  - If it fails – Retrace your steps or ask for help
- NIOSV
  - This verification will need to be done later in the semester

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