Add bluetooth to GUI\_VNC

# STM32CubeMX

## Pins

|  |  |  |
| --- | --- | --- |
| PIN | NAME | FUNCTION |
| PA0 | IRQ | EXTI0 |
| PI1 | SPI2\_SCK | SPI2 |
| PB14 | SPI2\_MISO | SPI2 |
| PB15 | SPI2\_MOSI | SPI2 |
| PI3 | RST | GPIO\_OUT |
| PF10 | CSN | GPIO\_OUT |
| PI11 | PUSH\_BUTTON | EXTI11 |
| PA9 | USART1\_TX | USART |
| PB7 | USART1\_RX | USART |
| PA15 | EXT\_LED7 | GPIO\_OUT |
| PA8 | EXT\_LED8 | GPIO\_OUT |

## SPI2 Configuration

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## Bluetooth

Add Bluetooth firmware, kies “template” voor “hci-tl-interface”

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Do not call Bluetooth init and process functions:

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Remove “RTE\_Components.h” in STCubeGenerated\Inc

# Keil

## Middlewares

Kopieer de Bluetooth Middlewares folder in het project.  
(%USERPROFILE%\STM32Cube\Repository\Packs\STMicroelectronics\X-CUBE-BLE1\7.0.0\Middlewares)

## Source

Pas de uvprojx file aan door de verschillende “Group” elementen over te nemen uit het project .\RTE\Device\STM32F746NGHx\STCubeGenerated\MDK-ARM\STCubeGenerated.uvprojx.

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## Include paths

Voeg de volgende include paths toe:  
./Middlewares/ST/BlueNRG-MS/utils;./Middlewares/ST/BlueNRG-MS/includes;./Middlewares/ST/BlueNRG-MS/hci/hci\_tl\_patterns/Basic

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## RTE\_Components

Verwijder GUI\_VNC\_bluetooth\RTE\Device\STM32F746NGHx\STCubeGenerated\Inc\RTE\_Components.h

## STDIO

Voeg de STDOUT toe via de Run-Time Environment  
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Voeg een STDOUT User Template.c toe en voeg het volgende toe:  
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