

In order to prevent spurious interrupts from the PORT event while configuring the sources, the following must be performed:

1. Disable interrupts on the PORT event (through [INTENCLR.PORT](#)).
2. Configure the sources ([PIN\\_CNF\[n\].SENSE](#) in [GPIO](#)).
3. Clear any potential event that could have occurred during configuration (write '0' to [EVENTS\\_PORT](#)).
4. Enable interrupts (through [INTENSET.PORT](#)).

### 8.9.3 Tasks and events pin configuration

Each GPIOTE channel is associated with one physical GPIO pin through the [CONFIG.PSEL](#) field.

When Event mode is selected in [CONFIG.MODE](#), the pin specified by [CONFIG.PSEL](#) will be configured as an input, overriding the [DIR](#) setting in [GPIO](#). Similarly, when Task mode is selected in [CONFIG.MODE](#), the pin specified by [CONFIG.PSEL](#) will be configured as an output overriding the [DIR](#) setting and [OUT](#) value in [GPIO](#). When Disabled is selected in [CONFIG.MODE](#), the pin specified by [CONFIG.PSEL](#) will use its configuration from the [PIN\[n\].CNF](#) registers in [GPIO](#).

For the range of possible [CONFIG.PORT](#) values in the product, see [Instances](#) on page 287. Writing other values may lead to undefined behavior.

**Note:** A pin can only be assigned to one GPIOTE channel at a time. Failing to do so may result in unpredictable behavior.

### 8.9.4 Split security attribute

Individual GPIOTE channels and interrupts can have independent security attributes.

GPIOTE is implemented with split security, meaning it handles accesses from both secure and non-secure code. GPIOTE channels and interrupts can be defined as secure or non-secure.

For more information on GPIOTE security attributes, see [GPIOTE](#) on page 132.

### 8.9.5 Registers

#### Instances

Instance	Domain	Base address	TrustZone			Split access	Description
			Map	Att	DMA		
GPIOTE20 : S	GLOBAL	0x500DA000	US	S	NA	Yes	8 channels and 2 interrupts for
GPIOTE20 : NS		0x400DA000					GPIO port P1
							GPIO tasks and events GPIOTE20
GPIOTE30 : S	GLOBAL	0x5010C000	US	S	NA	Yes	4 channels and 2 interrupts for
GPIOTE30 : NS		0x4010C000					GPIO port P0
							GPIO tasks and events GPIOTE30