

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	0x5000DA000	US	S	NA	Yes	8 channels and 2 interrupts for
		0x4000DA000					GPIO port P1 GPIO tasks and events GPIOTE20
GPIOTE30 : S	GLOBAL	0x5010C000	US	S	NA	Yes	4 channels and 2 interrupts for
		0x4010C000					GPIO port P0 GPIO tasks and events GPIOTE30