

# Using an Enumeration Data Type

You can use an enumeration data type for a datapoint or property. IzoT enumerations are defined as signed 8-bit types. Signed 8-bit enumerated types are not generally portable across different C compilers. To increase portability, the IzoT Interface Interpreter changes each enumeration to an assigned 8-bit scalar such as **signed char**, with C preprocessor definitions for the enumerated values.

## Example

The IzoT Interface Interpreter generates the following code for a **SNVT\_config\_src** datapoint type, which implements the **config\_source\_t** enumeration.

```
typedef signed char config_source_t
#define CFG_NUL -1      /* enum config_source_t */
#define CFG_LOCAL 0     /* enum config_source_t */
#define CFG_EXTERNAL 1 /* enum config_source_t */

typedef config_source_t SNVT_config_src
```