

## AMiRo-OS - Feature #594

### Revise periphAL

2019-03-14 11:06 - Thomas Schöpping

<b>Status:</b>	New	<b>Start date:</b>	2019-03-14
<b>Priority:</b>	Normal	<b>Due date:</b>	2019-05-31
<b>Assignee:</b>	Thomas Schöpping	<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	4.00 hours
<b>Target version:</b>			

#### Description

The periphery abstraction layer (periphAL) should be revised and optimized:

- All enum should be replaced by a combination of #define and optimal fundamental types (e.g. typedef uint16\_t apalExitStatus\_t) for best code efficiency.
- apalGpioActive\_t should be extended by two further states: APAL\_GPIO\_ACTIVE\_NONE and APAL\_GPIO\_ACTIVE\_ANY
- apalGpioEdge\_t documentation s´must clearly state that values refer to physical (not logical!) signal edges.
- apalGpioMeta\_t needs to be updated accordingly (i.e. two bits for the apalGpioActive\_t member).
- The edge member of apalGpioMeta\_t can also apply to output signals, so wherever this struct is used, comments must be updated accordingly (right now the definitions in all module.c files state it as "interrupt edge", which just one of many ways how the edge information can be interpreted).