

## adinstbpm - Task #20521

Milestone # 20350 (New): IOTA BPM deployment

Milestone # 19607 (New): IOTA ACNET Interface

### IOTA BPM Raw Array Device

08/03/2018 09:19 AM - John Diamond

|   |                 |                        |             |
|---|-----------------|------------------------|-------------|
| <b>Status:</b>                                      | Closed          | <b>Start date:</b>     | 08/03/2018  |
| <b>Priority:</b>                                    | Normal          | <b>Due date:</b>       |             |
| <b>Assignee:</b>                                    | Elliott McCrory | <b>% Done:</b>         | 100%        |
| <b>Category:</b>                                    |                 | <b>Estimated time:</b> | 4.00 hours  |
| <b>Target version:</b>                              |                 | <b>Spent time:</b>     | 12.00 hours |
| <b>Description</b>                                  |                 |                        |             |
| An ACNET device for reading the latest Raw Reading. |                 |                        |             |

#### History

##### #1 - 08/03/2018 09:20 AM - John Diamond

Nathan's specifications:

```
Raw Data Readback by "paging" bpm raw data readback
N:IBPMIN - index for selecting bpm to read (1-21)
N:IBPMPG - page to report from each channel (1-16) to support up to 128k samples
N:IBPMRA[0:N] - Raw ADC samples for channel A for selected bpm
N:IBPMRB[0:N] - Raw ADC samples for channel B for selected bpm
N:IBPMRC[0:N] - Raw ADC samples for channel C for selected bpm
N:IBPMRD[0:N] - Raw ADC samples for channel D for selected bpm
```

The existing SSDNs Channel IDs stop at 216 (0x00d8), so we will use 220 (0xdc)

This will be six (6) new SSDNs (0?dc/0000/0000/0000):

- **Chan 0** - The reading/setting of the BPM to return (00dc/0000/0000/0000)
- **Chan 1** - the reading/setting of the page number of the raw data to return (01dc/0000/0000/0000)
- **Plate P** - The plate reading. (0Pdc/0000/0000/0000) - P=2, 3, 4, or 5 for A, B, C, or D, respectively

Note that the last three words of the SSDN are ignored.

Thus, setting the device with the (00dc) SSDN to 1 and the (01dc) SSDN to 5 will cause readings on each of the four other SSDNs to point to the raw array values of the second BPM at the 6th page of the full data array.

##### #2 - 08/30/2018 12:15 PM - Elliott McCrory

- % Done changed from 0 to 70

##### #3 - 10/16/2018 11:08 AM - Elliott McCrory

- Status changed from Assigned to Closed

- % Done changed from 70 to 100

- Estimated time set to 4.00 h