**Flowchart : Existing sequence of object Initialization**



**Steps Involved**

A profile.zlb file will be generated from the FPG with the initialization of all the properties of the objects. This file is in the host(M168)

* Whenever power cycle happens the device (Copla) will compare the header of existing profile.zlb with the profile.zlb file of host (M168).
* If both the headers are different, then download new profile.zlb to the flash otherwise it will not get downloaded.
* Compare profile.zlb header with profile.bin header.
* If both the headers not same, unzip the profile.zlb to profile.bin
* Else if both the headers are same, do not unzip the profile.zlb to profile.bin.
* Compare the CRC of the profile.bin file with calculated CRC of the same file.
* If the CRC got matched then initialize the BACnet Objects. Otherwise do not initialize.

**Flowchart of proposed sequence of BACnet object initialization**

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**Steps Involved**

A profile.zlb file will be generated from the FPG with the initialization of all the properties of the objects. This file is in the host (M168).

1. Whenever power cycle happen the device (Copla) will compare the header of existing profile.zlb with the profile.zlb file of host (M168).
2. If both the headers are different, then download new profile.zlb to the flash otherwise it will not get downloaded.
3. Compare profile.zlb header with profile.bin header.
4. If profile.zlb header and profile.bin header are same, go to step 9.
5. If profile.zlb header and profile.bin header are not same, Calculate the CRC of the profile.bin file
6. Compare the CRC of the profile.bin header with calculated CRC of the same file.
7. If the CRC got matched then initialize the BACnet Objects. Otherwise do not initialize.
8. If CRC of the profile.bin is not getting matched, then unzip the profile.zlb.
9. Compare the CRC of the profile.bin header with calculated CRC of the same file.
10. If the CRC got matched then initialize the BACnet Objects. Otherwise do not initialize.