# Edit FRU

### **Before Update**

- Before Update, you need to prepare below things
  - OS: Windows or Linux
  - Ipmitool: Windows or Linux version
  - ASUS\_FRU\_Tools: Windows or Linux version
- The Steps executed on Linux environment

### First Step: Edit FRU INI



- The FRU INI contains FRU data that will fill into FRU
- In the INI [Global] session, if set item to 1, the asus\_fru\_tool will phase in.
- Typically our modification will be [Chassis] / [Board] / [Product] sessions.
- [Chassis] session included part number and serial number

### First Step: Edit FRU INI

F

mchou@rs700-e11-ubu: ~/tools/fru\_x64

### [Board]

board\_language\_code = 0
#Format 2021-02-25 00:00:00
mfg\_date =
board\_manufacturer = ASUSTEK COMPUTER INC.
board\_product\_name = Z13PP-D32 Series
board\_serial\_number = 20127883100014
board\_part\_number = 60SB0940SB0C011
board\_fileid =

### [Product]

```
product_language_code = 0
product_manufacturer = ASUSTEK COMPUTER INC.
product_product_name = RS700-E11-RS12U
product_part_number =
product_version = 00
Droduct_serial_number = RS700-SVR-09
product_asset_tag =
product_fileid =
```

[Multirecord1] record\_type = 3

91%

39,1

- [Board] session included MB info that is important. Included manufacturer, name, serial number and part number.
- [Product] session include Server info that included manufacturer, name part number version and serial number.
- [Multirecord1] included system UUID, if you don't need to modify this field, just set support to 0 or remove this session

### Second Step: Convert INI to BIN file



- After INI file modified. The Next step is to run the asus\_fru\_tool to convert the ini into BIN file.
- The asus\_fru\_tool will check the content of ini and convert to bin file if correct. If the INI included error syntax, the tool will also highlight it.
- Execute asus\_fru\_tool xxx.ini to convert

## Third Step: Write FRU by Ipmitool

F	mchou@rs700-e11-ubu: ~/tools/fru_x64 Q = _ 🛛
mchou@rs700-e11-ubu:~/1	cools/fru_x64\$ sudo ipmitool raw 0x30 0x17 0x01
<pre>mchou@rs700-e11-ubu:-/1 Fru Size : 256 Size to Write : 256 mchou@rs700-e11-ubu:-/1 FRU Device Description Chassis Type</pre>	<pre>cools/fru_x64\$ sudo ipmitool fru write 0 rs700-e11.bin bytes cools/fru_x64\$ sudo ipmitool fru print : Builtin FRU Device (ID 0) : Rack Mount Chassis</pre>
Chassis Part Number Chassis Serial Board Mfg Date Board Mfg Board Product Board Serial Board Part Number Product Manufacturer	: 13SF0150AM0101 : RS700-SVR-09 : Tue May 10 15:41:00 2022 : ASUSTEK COMPUTER INC. : Z13PP-D32 Series : 20127883100014 : 60SB0940SB0C011 : ASUSTEK COMPUTER INC.
Product Name Product Version Product Serial mchou@rs700-e11-ubu:~/1	: RS700-E11-RS12U : 00 : RS700-SVR-09 ::::::::::::::::::::::::::::::::::::

- After bin file converted, now we can start the FRU update process.
- First if will need to execute ipmitool raw 0x30 0x17 0x01 to unlock FRU protection
- Next execute ipmitool fru write 0 xxx.bin to write FRU
- After FRU write finished, you can check it with ipmitool fru print

### Thank You