

Standard Operating Procedure for asn to der conversion using ASN step tool for commercial OP orders - M2M - for PDM



Version Control

Document Name	Version	Date
SOP for asn to der conversion using ASN step tool for commercial OP orders - M2M - for PDM	V1.0	11-08-2022

Prepared by	Technical Support Services	11-08-2022
Approved by	Saji Krishnan	Saji Krishnan

Revision History

Issue	Date	Reason for change
V1.0	11-08-2022	First Release

25 August 2022 Classification: Internal Page 2 of 6

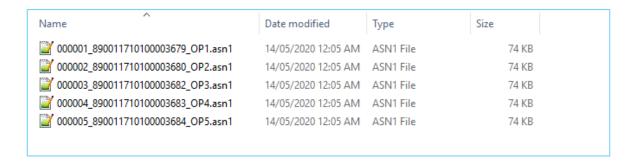


Introduction

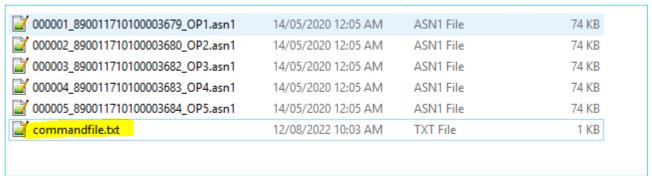
This document outlines the procedure for asn to der conversion using ASN step tool for commercial OP orders - M2M - for PDM.

Procedure

1. The asn files for each profile will be generated as an output of data generation from SDMS. Example snippet below.



- 2. These as files need to be converted into der files.
- 3. To convert these in a batch, prepare a commandfile.txt containing the list of command line options and place in the same folder. Snippet below:



4. The content of commandfile.txt shall be as below.

```
-encodeValue 000001_890011710100003679_OP1.asn1
-encodeValue 000002_890011710100003680_OP2.asn1
-encodeValue 000003_890011710100003682_OP3.asn1
-encodeValue 000004_890011710100003683_OP4.asn1
-encodeValue 000005_890011710100003684_OP5.asn1
```

- 5. To create the above commandfile.txt automatically using Windows cmd, you can execute below commands.
 - a. Go to the path where all asn files are present. This can be done using cd command. Example below: cd C:\Apps_SD\Workz Dubai RSP Setup\ASN.1 Studio Test\Sample_Gen

25 August 2022 Classification: Internal Page 3 of 6



```
C:\Windows\system32\cmd.exe — X

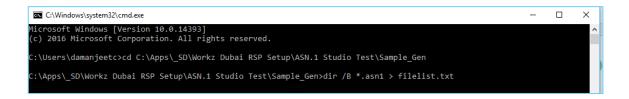
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.

C:\Users\damanjeetc>cd C:\Apps\_SD\Workz Dubai RSP Setup\ASN.1 Studio Test\Sample_Gen
```

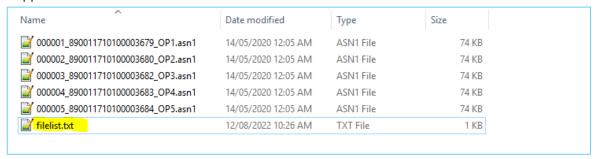
Result:

```
C:\Apps\_SD\Workz Dubai RSP Setup\ASN.1 Studio Test\Sample_Gen>
```

b. Run below command to generate a file which contains list of all files present in the folder: dir /B *.asn1 > filelist.txt



Result – a file "filelist.txt" will be created in the folder which will contain names of all asn1 files. See snippet below:



The content of this filelist.txt shall be as below:

```
000001_890011710100003679_OP1.asn1
000002_890011710100003680_OP2.asn1
000003_890011710100003682_OP3.asn1
000004_890011710100003683_OP4.asn1
000005_890011710100003684_OP5.asn1
```

c. Run below command to create final "commandfile.txt" file. for /f "tokens=*" %a in (filelist.txt) do (echo -encodeValue %a) >> commandfile.txt

25 August 2022 Classification: Internal Page 4 of 6



```
Microsoft Windows [Version 10.0.14393]

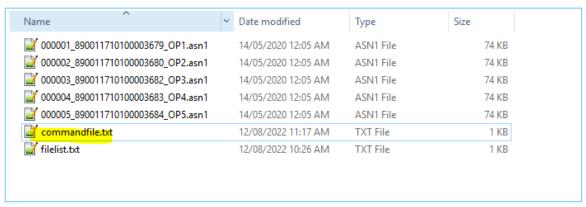
(c) 2016 Microsoft Corporation. All rights reserved.

C:\Users\damanjeetc>cd C:\Apps\_SD\Workz Dubai RSP Setup\ASN.1 Studio Test\Sample_Gen

C:\Apps\_SD\Workz Dubai RSP Setup\ASN.1 Studio Test\Sample_Gen>dir /B *.asn1 > filelist.txt

C:\Apps\_SD\Workz Dubai RSP Setup\ASN.1 Studio Test\Sample_Gen>for /f "tokens=*" %a in (filelist.txt) do (echo -encodeValue %a) >> commandfile.txt
```

Result – a file "commandfile.txt" will be created in the folder. See snippet below:



The content of this commandfile.txt shall be as below:

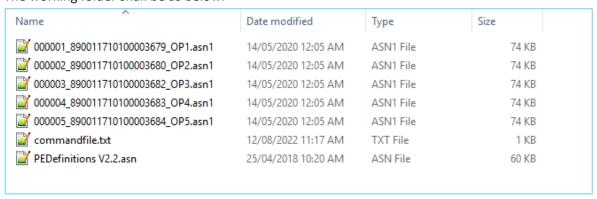
```
-encodeValue 000001_890011710100003679_OP1.asn1
-encodeValue 000002_890011710100003680_OP2.asn1
-encodeValue 000003_890011710100003682_OP3.asn1
-encodeValue 000004_890011710100003683_OP4.asn1
-encodeValue 000005_890011710100003684_OP5.asn1
```

- d. Delete "filelist.txt" file.
- 6. Based on the ASN1 major-version and minor-version, appropriate PEDefinitions file should be kept in the same folder.

For example: if major-version = 2 and minor-version = 0, then "PEDefinitions V2.0.asn" file should be kept. If major-version = 2 and minor-version = 2, then "PEDefinitions V2.2.asn" file should be kept.

Note: This PEDefinitions file will be provided by TSS to PDM team for each job execution.

The working folder shall be as below.



25 August 2022 Classification: Internal Page 5 of 6



7. Using asn1step tool, execute the below command to do the conversion:

asn1step "<name_of_PEDefinitions_file>" -der -commandfile commandfile.txt

Example:

asn1step "PEDefinitions V2.2.asn" -der -commandfile commandfile.txt

8. After executing the above, the der files will be created. Example snippet below.

Name .	Date modified	Туре	Size
🔐 000001_890011710100003679_OP1.asn1	14/05/2020 12:05 AM	ASN1 File	74 KB
000001_890011710100003679_OP1.asn1.der	19/07/2020 05:51 PM	DER File	11 KB
3 000002_890011710100003680_OP2.asn1	14/05/2020 12:05 AM	ASN1 File	74 KB
000002_890011710100003680_OP2.asn1.der	19/07/2020 05:52 PM	DER File	11 KB
3 000003_890011710100003682_OP3.asn1	14/05/2020 12:05 AM	ASN1 File	74 KB
o00003_890011710100003682_OP3.asn1.der	19/07/2020 05:52 PM	DER File	11 KB
3 000004_890011710100003683_OP4.asn1	14/05/2020 12:05 AM	ASN1 File	74 KB
000004_890011710100003683_OP4.asn1.der	19/07/2020 05:52 PM	DER File	11 KB
3 000005_890011710100003684_OP5.asn1	14/05/2020 12:05 AM	ASN1 File	74 KB
3000005_890011710100003684_OP5.asn1.der	19/07/2020 05:52 PM	DER File	11 KB
commandfile.txt	12/08/2022 11:17 AM	TXT File	1 KB
PEDefinitions V2.2.asn	25/04/2018 10:20 AM	ASN File	60 KB

9. The extension of the above files should be changed from ".asn1.der" to ".der". This can be done using a batch file. The batch file has been embedded below.



10. After execution of batch file, the extension will be changed. See example snippet below.

Name	Date modified	Type	Size
3 000001_890011710100003679_OP1.asn1	14/05/2020 12:05 AM	ASN1 File	74 KB
000001_890011710100003679_OP1.der	19/07/2020 05:51 PM	DER File	11 KB
3 000002_890011710100003680_OP2.asn1	14/05/2020 12:05 AM	ASN1 File	74 KB
000002_890011710100003680_OP2.der	19/07/2020 05:52 PM	DER File	11 KB
000003_890011710100003682_OP3.asn1	14/05/2020 12:05 AM	ASN1 File	74 KB
000003_890011710100003682_OP3.der	19/07/2020 05:52 PM	DER File	11 KB
3 000004_890011710100003683_OP4.asn1	14/05/2020 12:05 AM	ASN1 File	74 KB
000004_890011710100003683_OP4.der	19/07/2020 05:52 PM	DER File	11 KB
(2000005_890011710100003684_OP5.asn1	14/05/2020 12:05 AM	ASN1 File	74 KB
000005_890011710100003684_OP5.der	19/07/2020 05:52 PM	DER File	11 KB
Change_Extension_to_der.bat	12/08/2022 12:10 PM	Windows Batch File	1 KB
commandfile.txt	12/08/2022 11:17 AM	TXT File	1 KB
PEDefinitions V2.2.asn	25/04/2018 10:20 AM	ASN File	60 KB

25 August 2022 Classification: Internal Page 6 of 6



TITLE SOP_for_asn_to_der_conversion_using_ASN_step_tool_for_commer...

FILE NAME SOP_for_asn_to_de...for_PDM_v1.0.docx

DOCUMENT ID 6d4e3940a4f061eb336cfaa4912d60f8ae173de0

AUDIT TRAIL DATE FORMAT DD / MM / YYYY

STATUS • Signed

Document history

O5 / 09 / 2022 Sent for signature to Saji Krishnan

SENT 09:57:28 UTC+4 (saji.krishnan@workz.com) from tss@workz.com

IP: 94.200.229.6

O 20 / 09 / 2022 Viewed by Saji Krishnan (saji.krishnan@workz.com)

VIEWED 16:42:12 UTC+4 IP: 94.200.229.6

20 / 09 / 2022 Signed by Saji Krishnan (saji.krishnan@workz.com)

SIGNED 16:58:10 UTC+4 IP: 94.200.229.6

7 20 / 09 / 2022 The document has been completed.

16:58:10 UTC+4