

English

User Manual

Export PNRF JSON Settings

IMPRINT

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1 INTRODUCTION

1. Introduction

Export PNRF file takes JSON file(s) as input to get details like PNRF file location, export format, etc.

The purpose of this document is to provide an understanding about all JSON settings that are available in Export PNRF applications.

1.1. Common JSON Settings

The following JSON settings are common for all Export PNRF formats (see table below).

JSON settings		
#	JSON Setting	Description
1	PNRFFileLocation	File location of PNRF file
2	OutputFileName	File name of output file
3	OutputFileLocation ⁽¹⁾	Location of output file
4	ExportFormat	Export format to consider
5	LogsFileFolder ⁽²⁾	Folder for log file
6	ExportSettings	Settings to perform an export

- (1) If "AddRecordingToArchiveFolder" is set to true, archive folder is picked up as output file location.
"AddRecordingToArchiveFolder": "true" inside "ExportSettings" block.
- (2) All fields are mandatory except "LogsFileFolder" and "AddRecordingToArchiveFolder" fields in JSON.
Application logs are written to the file which is mentioned in the "LogsFileFolder" property of the JSON settings file.
If "LogsFileFolder" property is not provided, default folder will be taken from the "App. Config" file.

1.2. Possible values for Export Formats

ASCII, CDFAIRBUS, COMTrade2013, DIAdem, Excel, Famos, FlexPro, Matlab, MDF4, NRF3, Uff58ASCII, Uff58Binary, WaveSound

2 JSON SETTINGS

2. JSON Settings for Specific Formats

This chapter shows the format specific JSON settings.

2.2.1. ASCII JSON Settings

Sr. NO	JSON Setting	Possible values
1	TimeFormat	<ul style="list-style-type: none">• nicRelative• nicAbsolute• nicAbsoluteUCT

Sample ASCII JSON:

```
{
  "PNRFFileLocation": "D:\\PNRFFiles\\Recording001.pnrf",
  "OutputFileName": "Recording001",
  "OutputFileLocation": "D:\\ExportPNRF\\",
  "ExportFormat": "ASCII",
  "LogsFileFolder": "D:\\ExportPNRF\\Logs",
  "ExportSettings": {}
  "TimeFormat": "nicRelative"
}
```

Notice

If you do not specify the "TimeFormat", it will take "nicAbsolute." as default.

2 JSON SETTINGS

2.2.2. CDFAIRBUS JSON Settings

Sample CDFAIRBUS JSON:

```
{
  "PNRFFileLocation": "D:\\PNRFFiles\\Recording001.pnr",
  "OutputFileLocation": "D:\\ExportPNRF\\",
  "OutputFileName": "Recording001",
  "ExportFormat": "CDFAIRBUS",
  "ExportSettings": {}
}
```

2.2.3. DIAdem JSON Settings

Sample DIAdem JSON:

```
{
  "PNRFFileLocation": "D:\\PNRFFiles\\Recording001.pnr",
  "OutputFileLocation": "D:\\ExportPNRF\\",
  "OutputFileName": "Recording001",
  "ExportFormat": "DIAdem",
  "ExportSettings": {}
}
```

2 JSON SETTINGS

2.2.4. ComTrade2013 JSON Settings

Sample ComTrade2013 JSON:

```
{
  "PNRFFileLocation": "D:\\PNRFFiles\\Recording001.pnrf",
  "OutputFileLocation": "D:\\ExportPNRF\\",
  "OutputFileName": "Recording001",
  "ExportFormat": "COMTrade2013",
  "ExportSettings": {}
}
```

2.2.5. Excel JSON Settings

Sample Excel JSON:

```
{
  "PNRFFileLocation": "D:\\PNRFFiles\\Recording001.pnrf",
  "OutputFileLocation": "D:\\ExportPNRF\\",
  "OutputFileName": "Recording001",
  "ExportFormat": "Excel",
  "ExportSettings": {}
}
```


2 JSON SETTINGS

2.2.6. Famos JSON Settings

Sample Famos JSON:

```
{
  "PNRFFileLocation": "D:\\PNRFFiles\\Recording001.pnr",
  "OutputFileLocation": "D:\\ExportPNRF\\",
  "OutputFileName": "Recording001",
  "ExportFormat": "Famos",
  "ExportSettings": {}
}
```

2.2.7. FlexPro JSON Settings

Sample FlexPro JSON:

```
{
  "PNRFFileLocation": "D:\\PNRFFiles\\Recording001.pnr",
  "OutputFileLocation": "D:\\ExportPNRF\\",
  "OutputFileName": "Recording001",
  "ExportFormat": "FlexPro",
  "ExportSettings": {}
}
```

2 JSON SETTINGS

2.2.8. Matlab JSON Settings

Sample Matlab JSON:

```
{
  "PNRFFileLocation": "D:\\PNRFFiles\\Recording001.pnrf",
  "OutputFileLocation": "D:\\ExportPNRF\\",
  "OutputFileName": "Recording001",
  "ExportFormat": "Matlab",
  "ExportSettings": {}
}
```

2.2.9. MDF4 JSON Settings

Sr. NO	JSON Setting	Possible values
1	TimeQualityClass	<ul style="list-style-type: none">LocalPcReferenzTime(0)ExternalTimeSource(10)ExternalAbsoluteSynchronizedTime(16)

Sample MDF4 JSON:

```
{
  "PNRFFileLocation": "D:\\PNRFFiles\\Recording001.pnrf",
  "OutputFileLocation": "D:\\ExportPNRF\\",
  "OutputFileName": "Recording001",
  "ExportFormat": "MDF4",
  "ExportSettings":
  {
    "TimeQualityClass": "ExternalTimeSource" // LocalPcReferenz
    Time(0), ExternalTimeSource(10), ExternalAbsoluteSynchronized
    Time(16)
  }
}
```

2 JSON SETTINGS

2.2.10. NRF3 JSON Settings

Sample NRF3 JSON:

```
{
  "PNRFFileLocation": "D:\\PNRFFiles\\Recording001.pnr",
  "OutputFileLocation": "D:\\ExportPNRF\\",
  "OutputFileName": "Recording001",
  "ExportFormat": "NRF3",
  "ExportSettings": {}
}
```

2.2.11. UFF8ASCII JSON Settings

Sr. NO	JSON Setting	Possible values
1	TimeFormat	<ul style="list-style-type: none">• nicRelative• nicAbsolute• nicAbsoluteUCT

Sample UFF8ASCII JSON:

```
{
  "PNRFFileLocation": "D:\\PNRFFiles\\Recording001.pnr",
  "OutputFileLocation": "D:\\ExportPNRF\\",
  "OutputFileName": "Recording001",
  "ExportFormat": "UFF8ASCII",
  "ExportSettings": {
    "TimeFormat": "nicRelative"
  }
}
```

Notice

If you do not specify the "TimeFormat", it will take "nicAbsolute." as default.

2 JSON SETTINGS

2.2.12. UFF8Binary JSON Settings

Sample UFF8Binary JSON:

```
{
  "PNRFFileLocation": "D:\\PNRFFiles\\Recording001.pnrf",
  "OutputFileLocation": "D:\\ExportPNRF\\",
  "OutputFileName": "Recording001",
  "ExportFormat": "Uff58Binary",
  "ExportSettings": {}
}
```

2.2.13. Wavesound JSON Settings

Sample Wavesound JSON:

```
{
  "PNRFFileLocation": "D:\\PNRFFiles\\Recording001.pnrf",
  "OutputFileLocation": "D:\\ExportPNRF\\",
  "OutputFileName": "Recording001",
  "ExportFormat": "WaveSound",
  "ExportSettings":
  {
    "UseSampleAudioRate": "True", //False
    "SampleAudioRate": "11025", //22025/44100
  }
}
```

2 JSON SETTINGS

2.2.14. Placeholder in JSON Settings

- "OutputFileLocation" and "OutputFieldName" can be marked with date / time by attaching placeholder "%date%" or "%time%".
- Recording name can be added to file name with placeholder "%recname%"

```
date       = "%date%";
time       = "%time%";
trigger    = "%trigger%";
recording  = "%recname%"
Title      = "%title%"
```

Sample Placeholder JSON:

```
{
  "PNRFFileLocation": "D:\\PNRFFiles\\Recording001.pnrf",
  "OutputFileLocation": "D:\\ExportPNRF%date%\\",
  "OutputFileName": "Recording001%time%%recname%",
  "ExportFormat": "WaveSound",
  "ExportSettings": {}
}
```

3 TIME SLICE FEATURE

3. Time Slice Feature

3.1. Introduction

You can specify export start and end time in JSON settings file under "ExportSettings" property in two ways in the Perception application:

- For start and end time are 14 digits required after the decimal point (comparing methods).

Sample

```
"ExportStartTime": "0.22331633343558", //  
"ExportEndTime": "0.49080099601227" //
```

Follow these steps in Perception

1. Click on the active signal => Add to Sheet => Select User Table
 2. Select Cursor for Time Slices
 3. Go to DataSource ► Select Display ► Cursor1 ► Drag and Drop X position value in User Table
 4. Right click on that value ► select Data Source Properties =>
 5. Notation ► Floating Point, Number of Digits ► 14 (after decimal point)
- For start time and end time are up to 7 digits required after the decimal point.

Sample

```
"ExportStartTime": "5.3110303",  
"ExportEndTime": "18.3792121" //
```

Follow these steps in Perception

1. Open the recording in Perception. Move the first cursor; at the bottom select the X co-ordinates of the cursor and in the Json file specify the start time as "ExportStartTime".
2. Move the second cursor, select the X co-ordinates of the cursor and in the Json file specify the end time as "ExportEndTime".

3 TIME SLICE FEATURE

Sample Time Slice

```
{
  "PNRFFileLocation": "C:\\ExportPNRF\\PNRFFiles\\ExportData002.pnrf",
  "OutputFileLocation": "C:\\13052022\\Console\\",
  "OutputFileName": "ASCII_Perc",
  "ExportFormat": "ASCII",
  "LogsFileFolder": "C:\\ExportPNRF\\ConExports\\Logs",
  "ExportSettings":{
    "ExportXStep": 100,
    // "AddRecordingToArchieveFolder": "true",
    //"TimeFormat": "nicRelative",
    /** Expecting "hh:mm:ss.ms"(00:02:48.4545) or "ss.
    ms"(168.4545) as start/end time format. */
    "ExportStartTime": "27.06949854210530", //
    "ExportEndTime": "29.61495308755980" //
  }
}
```

The possible time formats allowed for "ExportStartTime" and "ExportEndTime" are the following:

- hh:mm:ss.ms e.g.: 01:02:48.4545;
- mm:ss.ms e.g.: 02:48.4545
- ss.ms e.g.: 48.4545

4 SPECIFY CHANNELS

4. Specify channels

4.1. Specify which channels are included

To specify which channels should be included add two placeholders in the JSON file. These specific channels will be exported while exporting a file. In this file insert recorder or channel names in the placeholder JSON file.

Sample of JSON file

```
{
  "PNRFFileLocation": "C:\\ExportPNRF\\PNRFFiles\\ExportData002.pnrf",
  "OutputFileLocation": "C:\\ASCII\\",
  "OutputFileName": "ASCII_Console_Channel",
  "ExportFormat": "ASCII",
  "LogsFileFolder": "C:\\ExportPNRF\\ConExports\\Logs",
  "ExportSettings":{
    "ExportXStep": 100,
    "Channels": "Ch A01,Ch A02,Ch A08,Ev A07_02,Ev A07_04,Ev
A07_06,Ev A07_08",
    "Recorders": "Recorder A",
    "TimeQualityClass": "10",
    // "AddRecordingToArchiveFolder": "true",
    //"TimeFormat": "nicRelative",
    /** Expecting "hh:mm:ss.ms"(00:02:48.4545) or "ss.
ms"(168.4545) as start/end time format. */
    "ExportStartTime": "01:13.629631901840", //
    "ExportEndTime": "02:41.973190184049" //
  }
}
```


5 TIME BASE CLASSES

5. Time base classes

5.1. Support "Time base classes" for MDF 4

Add a Time Quality Class placeholder. Use it as wildcard or specify the time quality class as shown in the example below.

Sample of Time base classes

```
{
  "PNRFFileLocation": "C:\\ExportPNRF\\PNRFFiles\\ExportData002.pnrf",
  "OutputFileLocation": "C:\\14-06-2022\\",
  "OutputFileName": "MDF4_Perc_EAST_ZIP",
  "ExportFormat": "MDF4",
  "LogsFileFolder": "C:\\ExportPNRF\\ConExports\\Logs",
  "ExportSettings":{
    "ExportXStep": 100,
    "TimeQualityClass": "0", // 0,10,16
    // "TimeQualityClass": " ExternalTimeSource " //
    LocalPcReferenzTime, ExternalTimeSource,
    ExternalAbsoluteSynchronizedTime
    "ExportStartTime": "0:30.9302", // 168.4545
    "ExportEndTime": "1:15.1020"}
}
```

6. Sample Audio Rate

6.1. Support Sample Audio Rate for export of Wave Sound

In the Wave Sound Export option you need to specify two parameters for the use of audio rate. The two options are "UseSampleAudioRate" and "SampleAudioRate" as shown in the example below:

Sample of Audio Rate

```
{
  "PNRFFileLocation": "C:\\ExportPNRF\\PNRFFiles\\ExportData002.pnrf",
  "OutputFileLocation": "C:\\20-06-2022\\11025_False\\Console\\",
  "OutputFileName": "Wave_Console",
  "ExportFormat": "WaveSound",
  "ExportSettings":{
    "UseSampleAudioRate": "true",
    "SampleAudioRate": "11025", // 22050,44100
    "ExportXStep": 100,
    //"ExportStartTime": ""4.05857621398773", //
    //"ExportEndTime": "4.39231854527607" //
  }
}
```

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