

## Technical Note 997-103 TN006 090130

OmniPro-Accept

Module: File import/export

## OmniPro-Accept ASCII Format

## Description

This document describes the ASCII file format for files generated with the OmniPro-Accept software. Following typographic conventions are used in the syntax column of tables below:

Space character (ASCII character # 32)

[tab] ASCII character # 9

Nbrofcurves Name of variable length character string

Each line will start with a character coding the type of information in that line:

- ':' Information on number of measurements dumped; separators between individual measurements.
   '#' Comments line. This sign could also appear anywhere inside another line and marks the rest of the line as comments.
- "%" Label information line. The sign is immediately followed by a three letter code (for type of information) and then, depending on this code, the information in question. (The coding is specific for each kind of information.)
- "!" Operator comments.
- '=' A measurement point.

Every line of the output is terminated with [CR] [LF].

The output is divided into blocks. First is the header block: (Space character is denoted by an ' · ' character)

		Comment
	measurement·in·file	NbrOfCurves determines the number of curves in the file and thus how many data blocks there will be in the dump.
ii	:SYS·BDS·0·#·Beam·Data·Scanner·Syste	

Then there is one block of curve data for each curve.

Line	Syntax	Comment
1	#	
	#·RFA300·ASCII·Measurement·Dump·(·B DS·format·)	
3	#	
4	#·Measurement·number·[tab]Nbr	Nbr = order number of the curve
5	#	A STATE OF THE PROPERTY OF T
6	%VNR·1.0	Indicates the format version of ASCII dumps.

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7	%MOD·[tab] <i>Mode</i>	Mode = identifies how the curve was measured. Possible values are:	
		'FLM.' (Film)	
		'RAT' (Ratio (RelativeDose))	
		'ABS · ' (AbsoluteDose)	
		'INT·' (Integrated)	
		'UDF·' (Undefined/Isodose)	
8	%TYP·[tab] Type	Type = identifies type of curve. Possible values are:	
		'SCN·' (Scan)	
		'ISO·' (Isodose)	
		'UDF-' (Undefined)	
9	%SCN·[tab]ScanType	ScanType = identifies type of scan. Possible values	
		are:	
		'DPT·' (DepthDose)	
		'PRO·' (Profile)	
		'MTX-' (Matrix)	
		'DIA-' (Diagonal)	
- 4		'UDF·' (Undefined/Isodose)	
10	%FLD·[tab]DetectorType	Possible values of DetectorType are:	
		'ION-' (IonChamber)	
		'SEM·' (Semiconductor)	
		'UDF · ' (Undefined)	
11	%DAT [tab] DateOfCreation	DateOfCreation = 'MM-DD-YYYY'	
12	%TIM·[tab] TimeOfCreation	TimeOfCreation = 'HH:MM:SS'	
13	%FSZ·[tab]FieldWidth[tab]FieldHe	eigh FieldWidth <b>and</b> FieldHeight <b>in mm</b>	
14	%BMT·[tab]RadType[tab]Energy	Possible values of RadType are:	
		'COB.' (Cobalt)	
		'PHO·' (Photons)	
		'ELE.' (Electrons)	
		'UDF-' (Undefined)	
		Energy is a right-justified, seven-character string with	
		energy value in MV or MeV always with one decimal.	
		Example: ' · · · 26.5'	
15	%SSD·[tab]SSD	SSD in mm	
16	%BUP·[tab]BuildUp	BuildUp in 0.1 mm	
17	%BRD·[tab]BeamReferenceDist	BeamReferenceDist in mm	
18	%FSH·[tab]Shape	Shape = the field shape. Possible values are:	
		'-1' (Undefined)	
		'0' (Circular)	
		'1' (Rectangular)	
		'2' (Irregular)	
19	%ASC · [tab] AccessoryNbr	Accessory number	
19	1100 [000]1100000131101		
20	%WEG·[tab]WedgeNbr	Wedge number (angle)	
		Wedge number (angle) GantryAngle in degrees	

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23	%MEA·[tab]MeasurementType	Possible values of MeasurementType are:
	The second secon	'-1' (Undefined)
		'0' (Absolute dose)
		'1' (Open depth)
		'2' (Open profile)
		'4' (Wedge)
		'5' (Wedge depth)
		'6' (Wedge profile)
24	%PRD·[tab]ProfileDepth	ProfileDepth in 0.1 mm
25	%PTS · [tab] NbrOfPoints	NbrOfPoints = number of curve data points
26	<pre>%STS·[tab]StartX[tab]StartY[tab] StartZ·#·Start·Scan·values·in·mm· (·X·,·Y·,·Z·)</pre>	StartX, StartY and StartZ are right-justified, seven-character strings with start values for each axis in origin-relative coordinates, in mm and always with one decimal. Example: ' · -100.0'.
27	<pre>%EDS · [tab] EndX[tab] EndY[tab] EndZ · # · End · Scan · values · in · mm · ( · X · , · Y · , · Z · )</pre>	EndX, EndY and EndZ are right-justified, seven- character strings with end values for each axis in origin- relative coordinates, in mm and always with one decimal. Example: ' · · 100.0'.
28	!·CommentsLine1	Operator comments, sixty characters long.
29	!·CommentsLine2	Operator comments, sixty characters long.
30	#	
31	#[tab] ··X·····Y·····Z·····Dose	
32	#	
33	= · [tab] XPos[tab] YPos[tab] ZPos[tab] I	XPos, YPos and ZPos are right-justified, seven-
•	ose	character strings with origin-relative coordinates of the data point, in mm and always with one decimal. Example: '10.0'. Dose is also a right-justified, seven-character string but with the normalized dose value of the data point, in percent and always with one decimal. This field is repeated for every curve data point.
-	:EOM··#·End·of·Measurement	

The last block indicates the end of file.

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Line	Syntax	Comment	
-	:EOF·#·End·of·File	Indicates the end of file.	

## Example

This is an example of a depth dose measurement, made with an ion chamber, in a 100x100 mm 6 MV photon field. SSD is 1000 mm. The ASCII output was made using version 4.3 of the RFA-300 software.

```
:MSR·[tab]1[tab].#.No..of.measurement.in.file
:SYS-BDS.0.#.Beam.Data.Scanner.system
#.RFA300.ASCII Measurement.Dump.(.BDS.format.)
#.Measurement.number.[tab]1
#.Weasurement.number.[tab]1
%VNR.1.0
%MOD.[tab]RAT
%TYP.(tab]SCN
%SCN.[tab]DPT
%FLD.(tab]IDN
```

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```
%DAT · [tab] 02-03-1988
%TIM (tab)14:15:25
%FSZ (tab)100(tab)100
%BMT·[tab]PHO·[tab]····6.0
%SSD • [tab] 1000
%BUP·[tab]13
%BRD . [tab] 0
%FSH·[tab]1
%ASC · [tab] 0
%WEG . [tab] 0
%GPO+[tabl0
%CPO . [tab] 0
%MEA · [tab] 1
%PRD . [tab] 0
%PTS · [tab] 25
%STS-[tab]....0.0[tab]....0.0[tab]....0.0[tab].#.Start.Scan.values.in.mm.(.X.,.Y.,.Z.)
%EDS-[tab]....0.0[tab]....0.0[tab]...300.0[tab].#.End.Scan.values.in.mm.(.X.,.Y.,.Z.)
#[tab] .. X ..... Y ..... Z .... Dose
= \( [tab] \cdots \cdot 0.0 \( [tab] \cdots \cdot 0.0 \( [tab] \cdots \cdot 99.7 \)
= \( [tab] \cdots \cdot 0.0 \( [tab] \cdots \cdot 0.0 \( [tab] \cdots \cdot 20.0 \( [tab] \cdot 100.0 \)
= \( [tab] \cdots \cdot 0.0 \( [tab] \cdots \cdot 0.0 \( [tab] \cdots \cdot 30.0 \( [tab] \cdots \cdot 96.1 \)
    [tab] .... 0.0[tab] .... 0.0[tab] ... 40.0[tab] ... 91.8
    [tab] ...0.0[tab] ...0.0[tab] ...50.0[tab] ...88.1

[tab] ...0.0[tab] ...0.0[tab] ...60.0[tab] ...83.9

[tab] ...0.0[tab] ...0.0[tab] ...70.0[tab] ...79.8
    [tab] · · · · 0.0[tab] · · · · 0.0[tab] · · · 80.0[tab] · · · 75.7
    [tab] · · · · 0.0[tab] · · · · 0.0[tab] · · · 90.0[tab] · · · 71.7
    [tab] · · · · 0.0[tab] · · · 0.0[tab] · · 100.0[tab] · · · 67.8

[tab] · · · · 0.0[tab] · · · 0.0[tab] · · 110.0[tab] · · · 64.4

[tab] · · · · 0.0[tab] · · · 0.0[tab] · · 120.0[tab] · · · 60.5

    [tab]
    0.0[tab]
    0.0[tab]
    120.0[tab]
    57.5

    [tab]
    0.0[tab]
    140.0[tab]
    54.2

    [tab]
    0.0[tab]
    150.0[tab]
    51.0

    [tab]
    0.0[tab]
    0.0[tab]
    160.0[tab]
    48.1

    [tab] ····0.0[tab] ····0.0[tab] ··170.0[tab] ···45.2
   [tab] ····0.0[tab] ···0.0[tab] ···180.0[tab] ···42.5

[tab] ···0.0[tab] ···0.0[tab] ···190.0[tab] ···40.5

[tab] ···0.0[tab] ···0.0[tab] ···200.0[tab] ···38.3
    [tab] · · · · 0.0[tab] · · · · 0.0[tab] · · · 220.0[tab] · · · 34.2
    [tab] · · · · 0.0[tab] · · · · 0.0[tab] · · · 240.0[tab] · · · 30.5
= [tab] ···0.0[tab] ···0.0[tab] ··260.0[tab] ··26.8

= [tab] ···0.0[tab] ···0.0[tab] ··280.0[tab] ···24.1

= [tab] ···0.0[tab] ···0.0[tab] ···300.0[tab] ···21.4
:EOM··#·End·of·Measurement
:EOF·#·End·of·File
```

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