



FM: OpenType Name Table Entries

- *Frank E. Blokland*





OpenType OTF/TTF Name table IDs:

```
nameid 0 "<Copyright notice>"
nameid 1 "<Font Family Name>"
nameid 2 "<Font Subfamily name>"
nameid 3 "<Unique font identifier>"
nameid 4 "<Full font name>"
nameid 5 "<Version string>"
nameid 6 "<Postscript name>"
nameid 7 "<Trademark>"
nameid 8 "<Manufacturer Name>"
nameid 9 "<Designer>"
nameid 10 "<Description>"
nameid 11 "<URL Vendor>"
nameid 12 "<URL Designer>"
nameid 13 "<License Description>"
nameid 14 "<License Info URL>"
```



OpenType OTF/TTF Name table IDs:

```
nameid 16 "<Preferred Family>"
nameid 17 "<Preferred Subfamily>"
nameid 18 "<Compatible Full>"
nameid 19 "<Sample text>"
nameid 20 "<PostScript CID findfont name>"
nameid 21 "<WWS Family Name>"
nameid 22 "<WWS Subfamily Name>"
```



OpenType OTF/TTF font naming in FM: *where/how?*

- In UFM program dialogs.
- Directly in the UFM (text) file.
- In the OpenType layout features (text) file.
- Using OT Master.



I. UFM program dialogs:

```
Version 001.000
FamilyName DTL Antares TPRO
FontName DTLAntaresTPRO-Regular
FullName DTL Antares TPRO
UniqueID 5083209
Weight Regular
IsFixedPitch false
Ascender 750
Descender -250
UnderlinePosition -133
UnderlineThickness 20
Bodysize 1000
CapHeight 715
FigureSize 725
XHeight 477
```



Dutch Type Library

FM: OPENTYPE NAME TABLE ENTRIES

◀ 6 ▶

Advanced: view/change UFM and PAR file entries

Common | Type 1 | TTF/OTF (1) | TTF/OTF (2) | TTF/OTF (3) | Macintosh | PAR (1) | PAR (2)

BodySize [units]: (Note: all subsequent metrics values will refer to this body size !)

Font Naming and Copyright Information

FontName:

Version:

Copyright:

Common Metrics Information

UnderlinePosition [units]:	<input type="text" value="-133"/>	UnderlineThickness [units]:	<input type="text" value="59"/>
SubScript [units]:	<input type="text" value="0"/>	SuperScript [units]:	<input type="text" value="339"/>
SubScriptSize [units]:	<input type="text" value="370"/>	SuperScriptSize [units]:	<input type="text" value="370"/>
StrikeOutOffset [units]:	<input type="text" value="267"/>	StrikeOutWidth [units]:	<input type="text" value="53"/>

Font Style Information

MacStyle:

PCWeight:

IsFixedPitch

OK Cancel Apply

'Common' dialog for editing the UFM file



Dutch Type Library

FM: OPENTYPE NAME TABLE ENTRIES



Advanced: view/change UFM and PAR file entries

Common | **Type 1** | TTF/OTF (1) | TTF/OTF (2) | TTF/OTF (3) | Macintosh | PAR (1) | PAR (2)

Font Info and PFM Information

FamilyName: CFF table

FaceName:

Weight:

FullName: CFF table

Notice: CFF table

Comment: (enter one or more lines here ->)

UniqueID: 0

Slant: 0

InternalLeading: 0

ExternalLeading: 0

OK Cancel Apply

'Type 1' dialog for editing the UFM file



Dutch Type Library

FM: OPENTYPE NAME TABLE ENTRIES

◀ 8 ▶

Advanced: view/change UFM and PAR file entries

Common | Type 1 | TTF/OTF (1) | TTF/OTF (2) | TTF/OTF (3) | Macintosh | PAR (1) | PAR (2)

TrueType Naming Table Information

FontFamilyName: Name table ID 1

TrueType ID: Name table ID 3

SubfamilyName: Regular Name table ID 2 ▾

Designer Name: Name table ID 9

Vendor URL: Name table ID 11

License URL: Name table ID 14

TrueType Horizontal Header Information (hhea)

AscenderHHEA [units]: 950 DesenderHHEA [units]: -250 LineGapHHEA [units]: 0

OK Cancel Apply

'TTF/OTF (1)' dialog for editing the UFM file



I. UFM program dialogs:

- The dialogs provide entries for the most important name tables.
- For generating an OpenType font a modified version of Adobe®'s *Hatch OpenType* tool (HOT) is used to convert a temporarily created Type 1 font into OTF.



I. UFM program dialogs:

- The CFF table info is always taken from the CFF table in the UFM file, because CFF is just a compressed copy of the intermediate Type 1 font temporarily created with the URW++ Type 1 tool.



I. UFM program dialogs:

- The *Full font name* string for the Windows platform is automatically made identical to the *PostScript FontName* in the CFF Name index.
- In case the *Font Subfamily name* is 'Regular' in CFF fonts, the *Full Font name* for Mac OS is automatically identical to the *Font Family name*. Also for both platforms in TTF fonts.



I. UFM program dialogs:

- A kern file can be selected in the 'PAR (1)' dialog.
- An OpenType layout features file can be selected in the 'TTF/OTF (3)' dialog.
- With no features file selected a default *features.txt* file will be created.



II. UFM file editing:

- (Additional) Name tables can be directly added to the UFM file using a text editor.
- In case of overlap with 'standard' UFM entries, the *TTName* tabel entries are used.



II. UFM file editing:

StartFontMetrics

TTName 1 1 0 0 "DTL Argo"; #Macintosh

TTName 1 3 1 0x409 "DTL Argo";

TTName 2 1 0 0 "Regular"; #Macintosh

TTName 2 3 1 0x409 "Regular"; #Macintosh

TTName 4 1 0 0 "DTL Argo"; #Macintosh

TTName 7 3 1 0x409 "DTL Argo is a trademark of the Dutch Type Library"; #Windows

TTName 7 1 0 0 "DTL Argo is a trademark of the Dutch Type Library"; #Macintosh

TTName 8 1 0 0 "Dutch Type Library"; #Macintosh

TTName 8 3 1 0x409 "Dutch Type Library"; #Windows

TTName 10 1 0 0 "Standard retail version"; #Macintosh

TTName 10 3 1 0x409 "Standard retail version";

TTName 13 1 0 0 "By downloading, unpacking and/or



III. OpenType Layout features file:

- When exporting OpenType fonts all required conversions are done in a temporary directory, where all files needed by the conversion tools involved are created or copied.



III. OpenType Layout features file:

- *feathead.txt*, *featname.txt*, and *featos2.txt* contain table blocks for respectively the 'head', 'name' and 'os/2' table, with all entries based on the UFM and PAR files.
- *featkern.txt* contains a 'kern' feature block with kerning data taken from the kern file selected in the UFM program dialogs.



III. OpenType Layout features file:

- The temporary files are controlled by adding the following four lines to a features file with a 'standard' Adobe syntax:

```
'include (featkern.txt);'
```

```
'include (featos2.txt);'
```

```
'include (feathead.txt);'
```

```
'include (featname.txt);'
```



III. OpenType Layout features file:

- Name IDs from *featname.txt* are in the range of 1–6 (the standard range).

The original Adobe® HOT tool will not take these names from a features file, but the modified HOT tool will accept any ID.



III. OpenType Layout features file:

```
table name {  
  
  nameid 0 "<Copyright notice>";  
  nameid 0 1 "<Copyright notice>";  
  nameid 1 "<Font Family Name>";  
  nameid 1 1 "<Font Family Name>";  
  nameid 2 "<Font Subfamily name>";  
  nameid 2 1 "<Font Subfamily name>";  
  nameid 3 "<Unique font identifier>";  
  nameid 3 1 "<Unique font identifier>";  
  nameid 4 "<Full font name>";  
  nameid 4 1 "<Full font name>";  
  nameid 5 "<Version string>";  
  nameid 5 1 "<Version string>";  
  nameid 6 "<Postscript name>";
```



III. OpenType Layout features file:

- The information for the temporary files will be taken directly from the features file if one or more of the four added lines is disabled:

```
'# include (featkern.txt);'
```

```
'# include (featos2.txt);'
```

```
'# include (feathead.txt);'
```

```
'# include (featname.txt);'
```



III. OpenType Layout features file:

- If the intermediate table block files are not included, the HOT tool will still create the respective tables, but it may use some clever but unknown algorithms to calculate some of the entries based on the intermediate Type 1 font file.



III. OpenType Layout features file:

- The HOT tool may try to fill in some names more than once during the conversion process, first from the features file and then again according to some CFF names just to make sure that the name exists. The URW++ version of HOT will always keep the first one, i.e. the one from the features file.



III. OpenType Layout features file:

- When specifying a features file with its own name table block, there is always the risk that CFF names and names from *featname.txt* are not compatible, because they are not based on the same data source, i.e. UFM and PAR.



IV. Editing in OT Master:

- Besides many other functions, including the editing of glyphs, with OT Master the name records in OTF and TTF fonts can be edited.



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FM: OPENTYPE NAME TABLE ENTRIES

◀ 25 ▶

OTTED:/Volumes/BckUp_FntPr_04082008/FontProduction/Distributie/OpenType/OTF/Pro/DTL Antares PRO/AP11X13T.otf/OT...

Type	Name	Value
CHAR*	version	001.000
CHAR*	Notice	Copyright (c) Dutch Type Library, 2007. All rights reserved
CHAR*	Copyright	Copyright Copyright (c) Dutch Type Library, 2007. All rights reserved
CHAR*	FontName	DTLAntaresTPRO-Regular
CHAR*	FullName	DTL Antares TPRO Regular
CHAR*	FamilyName	DTLAntaresTPRO
CHAR*	Weight	Regular
LONG	isFixedPitch	0
float	ItalicAngle	0.000
float	UnderlinePosition	-133.000
float	UnderlineThickness	20.000
LONG	UniqueID	5083209
float	FontBBox.left	-185.000
float	FontBBox.bottom	-275.000
float	FontBBox.right	1313.000
float	FontBBox.top	1015.000
float	StrokeWidth	0.000
LONG	FSType	-1
LONG	PaintType	0
list	XUID	+
list	FontMatrix	+
struct	Private	+

'CFF' table dialog



Dutch Type Library

FM: OPENTYPE NAME TABLE ENTRIES

◀ 26 ▶

OTTED:/Volumes/BckUp_FntPr_04082008/FontProduction/Distributie/OpenType/OTF/Pro/DTL Antares PRO/AP11X13T.otf/OT...

#	platformID	encodingID	languageID	nameID	nameString
0	1	0	0	0	Copyright (c) Dutch Type Library, 2007. .
1	1	0	0	1	DTL Antares TPRO
2	1	0	0	2	Regular
3	1	0	0	3	AP11X13T
4	1	0	0	4	DTL Antares TPRO
5	1	0	0	5	Version 001.000
6	1	0	0	6	DTLAntaresTPRO-Regular
7	1	0	0	7	DTL Antares is a trademark of the Dutch
8	1	0	0	8	Dutch Type Library
9	1	0	0	9	Erhard Kaiser
10	1	0	0	11	http://www.dutchtypelibrary.com
11	1	0	0	13	By downloading, unpacking and/or insta
12	1	0	0	14	http://www.dutchtypelibrary.com/suppo
13	1	0	0	18	DTL Antares TPRO Regular
14	3	1	1033	0	Copyright (c) Dutch Type Library, 2007. .
15	3	1	1033	1	DTL Antares TPRO
16	3	1	1033	2	Regular
17	3	1	1033	3	AP11X13T
18	3	1	1033	4	DTLAntaresTPRO-Regular
19	3	1	1033	5	Version 001.000
20	3	1	1033	6	DTLAntaresTPRO-Regular
21	3	1	1033	7	DTL Antares is a trademark of the Dutch
22	3	1	1033	8	Dutch Type Library

[NOTE] Extern to intern conversion of 'post' table successfully done.

'Name' table dialog



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