## ISO/IEC JTC 1/SC 2/WG 2 PROPOSAL SUMMARY FORM TO ACCOMPANY SUBMISSIONS FOR ADDITIONS TO THE REPERTOIRE OF ISO/IEC 10646

Please fill Sections A, B and C below. Section D will be filled by SC 2/WG 2.

For instructions and guidance for filling in the form please see the document "Principles and Procedures for Allocation of New Characters and Scripts" (http://www.dkuug.dk/JTC1/SC2/WG2/prot)

## A. Administrative

- 1. Title: Computer Scientist, Type Core Technology, Adobe Systems
- 2. Requester's name: Sairus Patel <sppatel@adobe.com>
- 3. Requester type (Member body/Liaison/Individual contribution): Associate member (Adobe Systems)
- 4. Submission date: 21 November 2000
- 5. Requester's reference (if applicable): N.A.
- 6. (Choose one of the following:)

This is a complete proposal: Yes

or, More information will be provided later:

## **B.** Technical - General

- 1. (Choose one of the following:)
- a. This proposal is for a new script (set of characters):

Proposed name of script:

b. The proposal is for addition of character(s) to an existing block: Yes

Name of the existing block: **Dingbats** 

- 2. Number of characters in proposal: 14
- 3. Proposed category (see section II, Character Categories):
- Ps = Punctuation, Open
- **Pe = Punctuation, Close**
- 4. Proposed Level of Implementation (see clause 15, ISO/IEC 10646-1): (Same as that for the current Dingbats characters.) Is a rationale provided for the choice? No

If Yes, reference:

- 5. Is a repertoire including character names provided?: Yes (Please see appended "Additional Notes" section)
- a. If YES, are the names in accordance with the 'character naming guidelines' in Annex K of ISO/IEC 10646-1? Yes
- b. Are the character shapes attached in a reviewable form? Yes
- 6. Who will provide the appropriate computerized font (ordered preference: True Type, PostScript or 96x96 bit-mapped format) for publishing the standard? Adobe Systems will provide a PostScript Type 1 version of the commercially available ZapfDingbats font.

If available now, identify source(s) for the font (include address, e-mail, ftp-site, etc.) and indicate the tools used: **Sairus Patel** < sppatel@adobe.com>. Adobe font tools used.

- 7. References:
- a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided? N.A.
- b. Are published examples (such as samples from newspapers, magazines, or other sources) of use of proposed characters attached? No; any user of the PostScript Type 1 font ZapfDingbats can produce a document with these characters.

8. Special encoding issues:

Does the proposal address other aspects of character data processing (if applicable) such as input, presentation, sorting, searching, indexing, transliteration etc. (if yes please enclose information):

Yes. (Please see the appended "Additional Notes" section for all Unicode character properties for the proposed characers.)

## C. Technical - Justification

1. Has this proposal for addition of character(s) been submitted before? No. (Please see appended "Additional Notes" section for possible reasons why the Unicode Consortium did not assign these 14 characters in the Dingbats block.)

If YES explain

2. Has contact been made to members of the user community (for example: National Body, user groups of the script or characters, other experts, etc.)? N.A. (Please see appended "Additional Notes" section – any user of Zapf Dingbats can use the proposed characters.)

If YES, with whom?

If YES, available relevant documents?

3. Information on the user community for the proposed characters (for example: size, demographics, information technology use, or publishing use) is included? **Yes** 

Reference: (Please see appended "Additional Notes" section – any user of Zapf Dingbats can use the proposed characters.)

4. The context of use for the proposed characters (type of use; common or rare) **Common** 

Reference: (Please see appended "Additional Notes" section.)

5. Are the proposed characters in current use by the user community? Yes

If YES, where? In any document created with the Zapf Dingbats font, if those characters are selected.

Reference: (Please see appended "Additional Notes" section.)

6. After giving due considerations to the principles in N 1352 must the proposed characters be entirely in the BMP? Yes If YES, is a rationale provided? It makes most sense for them to be with the other Dingbats in the Dingbats block; there is adequate space immediately following the last defined Dingbat.

If YES, reference: (Proposed Unicode values are in appended "Additional Notes" section.)

- 7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)? Yes, since the order will match the PostScript encoding in the font. The current Dingbats block has the same ordering as the PostScript encoding in the font.
- 8. Can any of the proposed characters be considered a presentation form of an existing

character or character sequence? No

If YES, is a rationale for its inclusion provided?

If YES, reference:

9. Can any of the proposed character(s) be considered to be similar (in appearance or function) to an existing character? **No** 

If YES, is a rationale for its inclusion provided?

If YES, reference:

10. Does the proposal include use of combining characters and/or use of composite sequences (see clause 4.11 and 4.13 in ISO/IEC 10646-1)? **No** 

If YES, is a rationale for such use provided?

If YES, reference:

Is a list of composite sequences and their corresponding glyph images (graphic symbols) provided? N.A.

If YES, reference:

11. Does the proposal contain characters with any special properties such as control function or similar semantics? **Yes** If YES, describe in detail (include attachment if necessary) **All Unicode character properties for the proposed characters have been enclosed. (Please see appended "Additional Notes" section.)** 

# D. SC 2/WG 2 Administrative (To be completed by SC 2/WG 2)

1. Relevant SC 2/WG 2 document numbers:								
2. Status (list of meeting number and corresponding action or disposition):								
3. Additional contact to user communities, liaison organizations etc:								
4. Assigned category and assigned priority/time frame:								

## **Additional Notes**

## Rationale for inclusion of proposed 14 characters into Dingbats block:

- 1. The Zapf Dingbats Type 1 font has always included these 14 glyphs. They have always been encoded in the Macintosh Type 1 version and therefore have been accessible to Macintosh users. (MacOS TrueType Zapf Dingbats also encodes these glyphs.)
- 2. The Windows versions of Zapf Dingbats previous to 002.000 included these glyphs, but they were not accessible to most users since they were unencoded in the PostScript and therefore Windows encoding due to an oversight on Adobe's part. This is probably what resulted in Unicode originally not including these 14 glyphs when it first defined the Dingbats block around 1990.
- 3. Adobe has fixed this in version 002.000, which shipped in June/July 1997. The revised font ships with all devices which include PostScript 3, which includes devices from both Apple (Laserwriter 8500) and Hewlett-Packard (a wide-format colour printer). Other products that have already bundled or will bundle the revised version include Adobe Acrobat, Adobe Type Manager, Type on Call, and Font Folio. (Appended is a visual representation of the revised PostScript encoding of Zapf Dingbats.)

Apple has defined the 14 characters in the Corporate Use subarea; Adobe also currently uses these assignments in its documents, but would greatly prefer if they were assigned alongside their compatriots in the Dingbats block. Given that Unicode makes an exception for encoding glyphs from the font Zapf Dingats, it should do so for the entire font.

Adobe has recently decided that it is going to be releasing an OpenType version of Zapf Dingbats for the first time around February 2001. We want the Unicode 'cmap' (character map) present in this font to contain only standard Unicode characters, not any Corporate Use subarea assignments; hence this proposal.

This issue was discussed on the Unicode list <unicode@unicode.org> 27 Jan '98, thread "Zapf Dingbats block missing 14 glyphs". No objections were expressed by anyone on that list at that time.

### Glyph information of proposed characters:

- 1. Proposed Unicode value (follows PostScript encoding order, as do current Dingbats block assignments).
- 2. PostScript encoding (hexdecimal) in ZapfDingbats.
- 3. PostScript glyph name in ZapfDingbats.
- 4. Corporate Use subarea Unicode value used by Adobe and Apple.

```
27C0;80;a89;F8D7
27C1;81;a90;F8D8
27C2;82;a93;F8D9
27C3;83;a94;F8DA
27C4;84;a91;F8DB
27C5;85;a92;F8DC
27C6;86;a205;F8DE
27C7;87;a85;F8DE
27C8;88;a206;F8DF
27C9;89;a86;F8E0
27CA;8A;a87;F8E1
27CB;8B;a88;F8E2
27CC;8C;a95;F8E3
27CD;8D;a96;F8E4
```

### Proposed character properties for Unicode database:

Note: Fields 2-14 modelled on those for U+FD3E, ORNATE LEFT PARENTHESIS and U+FD3F, ORNATE RIGHT PARENTHESIS).

#### Character shapes for proposed characters on next page

Filename: zd\_\_\_\_.pfb FontName: ZapfDingbats Em: 1000 units

PostScript encoding of ZapfDingbats v002.000

.2/00-420

>> NOTE: 14 proposed Unicode characters are at code points 0x80–0x8D <<

enc	advWidth	
		ᆫ
glyphN	lomo	
giypniv	iame	

	0x21 974	<b>%</b>	0x23 974 0x23 974	1 0x24 980 0 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0x25 719	0x26 78'	0x27 790 a119	0x28 79°	a117	a11	a12	9 0x2C 549	a14	, (S),	0x2F 933
space 0x30 911	, CO	0x32 974 a18	0x33 755	0x34 846	0x35 762	<b>322</b>	a23	X	<b>.</b>	<b>,</b>		9 0x3C 754	1	<b>Ú</b> .	<b>.T</b> .
0x40 577	0x41 692 a10	0x42 786 a29	0x43 788	3 0x44 788	0x45 790 a32	0x46 793	3 0x47 794 3 0x47 794	. <b>*</b>	a36	a37	9 0x4B 84	a28 1 0x4C 823	3 0x4D 833	a41 816	0x4F 831
0x50 923 ,	*	<b>34</b> 5	*	**.	0x55 792	*	<b>*</b>	<b>*</b>	. <b>₩</b> .	a53	354	a55	**	2 0x5E 701 a57	0x5F 826 a58
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(	).	,(,	0x83 317	7 0x84 276	0x85 276	a205	9 0x87 509 385	a206	0 0x89 410 a86	0 0x8A 23·	4 0x8B 23	4 0x8C 334	334 396		
	0xA1 732	0xA2 544	0xA3 544	0xA4 910	0xA5 667	0xA6 760	0 0xA7 760	0xA8 776	5 0xA9 59	5 0xAA 69-	4 0xAB 62	6 0xAC 788	B 0xAD 788	3 OXAE 788	3 0xAF 788
0xB0 788	0xB1 788	7	0xB3 788	3 0xB4 788 3 0xB4 788	10	0xB6 78	0xB7 788	0xB8 788		8 OXBA 78	<b>(6)</b>	8 0xBC 788	8 0xBD 788	3 OXBE 788	8 0xBF 788
	0xC1 788	0xC2 788	0xC3 788	3 0xC4 788	0xC5 788	a130 0xC6 78i	8 0xC7 788	a132 0xC8 781	3 0xC9 78		a135 8 0xCB 78	8 0xCC 788			8 0xCF 788 (6) a155
788 788 788 788 788 788 788 788 788 788	0xD1 788 8	0xD2 788 (9),	0xD3 788 0xD3 788	a160	0xD5 838	0xD6 1016	3 0xD7 458	0xD8 749	92 3 0xD9 92 	4 0xDA 74	8 0xDB 91	8 0xDC 927	7 0xDD 928	a169	a170 OxEF 874
			a162 0xF3 946	a174 5 0xF4 771	a175 0xF5 865	a176 0xF6 77	a177	a178 8 0xF8 96	a179 7 OxF9 88	a193 8 0xFA 83	a180 1 0xFB 87	a199 3 0xFC 927	a181 7 OxFD 970	a200 0 0xFE 918	a182