

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

Please fill all the sections A, B and C below.

Please read Principles and Procedures Document (P & P) from <http://www.dkuug.dk/JTC1/SC2/WG2/docs/principles.html> for guidelines and details before filling this form.

Please ensure you are using the latest Form from <http://www.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html>.

See also <http://www.dkuug.dk/JTC1/SC2/WG2/docs/roadmaps.html> for latest Roadmaps.

**A. Administrative**

1. **Title: Dotted Square**

2. Requester's name: Unicode Technical Committee and US National Body

3. Requester type (Member body/Liaison/Individual contribution): Member

4. Submission date:

12-may-2005

5. Requester's reference (if applicable): Murray Sargent III

6. Choose one of the following:

This is a complete proposal:

\_\_\_\_\_

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:  \_\_\_\_\_

Name of the existing block: General Punctuation

2. Number of characters in proposal: 1

3. Proposed category (select one from below - see section 2.2 of P&P document):

A-Contemporary \_\_\_\_\_ B.1-Specialized (small collection)  B.2-Specialized (large collection) \_\_\_\_\_

C-Major extinct \_\_\_\_\_ D-Attested extinct \_\_\_\_\_ E-Minor extinct \_\_\_\_\_

F-Archaic Hieroglyphic or Ideographic \_\_\_\_\_ G-Obscure or questionable usage symbols \_\_\_\_\_

4. Proposed Level of Implementation (1, 2 or 3) (see Annex K in P&P document): 1

Is a rationale provided for the choice? Yes

If Yes, reference: given below

5. Is a repertoire including character names provided? Yes

a. If YES, are the names in accordance with the "character naming guidelines" in Annex L of P&P document? Yes

b. Are the character shapes attached in a legible form suitable for review? Yes

6. Who will provide the appropriate computerized font (ordered preference: True Type, or PostScript format) for publishing the standard? Yes

If available now, identify source(s) for the font (include address, e-mail, ftp-site, etc.) and indicate the tools used: \_\_\_\_\_

7. References:

a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided? Yes

b. Are published examples of use (such as samples from newspapers, magazines, or other sources) of proposed characters attached? No

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

9. Additional Information:

Submitters are invited to provide any additional information about Properties of the proposed Character(s) or Script that will assist in correct understanding of and correct linguistic processing of the proposed character(s) or script. Examples of such properties are: Casing information, Numeric information, Currency information, Display behaviour information such as line breaks, widths etc., Combining behaviour, Spacing behaviour, Directional behaviour, Default Collation behaviour, relevance in Mark Up contexts, Compatibility equivalence and other Unicode normalization related information. See the Unicode standard at <http://www.unicode.org> for such information on other scripts. Also see <http://www.unicode.org/Public/UNIDATA/UCD.html> and associated Unicode Technical Reports for information

<sup>1</sup> Form number: N2652-F (Original 1994-10-14; Revised 1995-01, 1995-04, 1996-04, 1996-08, 1999-03, 2001-05, 2001-09, 2003-11)

needed for consideration by the Unicode Technical Committee for inclusion in the Unicode Standard.

**C. Technical - Justification**

1. Has this proposal for addition of character(s) been submitted before? If YES explain _____	No
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.)? If YES, with whom? Mathematics community within Microsoft If YES, available relevant documents:	Yes
3. Information on the user community for the proposed characters (for example: size, demographics, information technology use, or publishing use) is included? Reference: _____	General use
4. The context of use for the proposed characters (type of use; common or rare) Reference: _____	General use
5. Are the proposed characters in current use by the user community? If YES, where? Reference: _____	Not as such
6. After giving due considerations to the principles in the P&P document must the proposed characters be entirely in the BMP? If YES, is a rationale provided? If YES, reference: See below	Yes Yes
7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)?	No
8. Can any of the proposed characters be considered a presentation form of an existing character or character sequence? If YES, is a rationale for its inclusion provided? If YES, reference: _____	No _____
9. Can any of the proposed characters be encoded using a composed character sequence of either existing characters or other proposed characters? If YES, is a rationale for its inclusion provided? If YES, reference: _____	No _____ _____
10. Can any of the proposed character(s) be considered to be similar (in appearance or function) to an existing character? If YES, is a rationale for its inclusion provided? If YES, reference: _____	No _____ _____
11. Does the proposal include use of combining characters and/or use of composite sequences? 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? If YES, reference: _____	No _____ _____ No _____
12. Does the proposal contain characters with any special properties such as control function or similar semantics? If YES, describe in detail (include attachment if necessary)	No _____
13. Does the proposal contain any Ideographic compatibility character(s)? If YES, is the equivalent corresponding unified ideographic character(s) identified? If YES, reference: _____	No _____ _____

U+2B1A	☐	DOTTED SQUARE
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This proposal recommends adding a DOTTED SQUARE like the DOTTED CIRCLE U+25CC but in the shape of the WHITE SQUARE U+25A1. A suggested code point is U+2B1A.

The proposed properties are the same as for U+25CC DOTTED CIRCLE. The size is intended to match that of the other squares, e.g., 25A0 BLACK SQUARE.

This character is intended for general use similar to 25CC DOTTED CIRCLE. There is implementer interest in using this character symbolically in a mathematical context, for example,

Type desired numerator at the ☐

$$\int_0^{\infty} dx \frac{\text{☐}}{x + q_2}$$