

**ISO/IEC JTC 1/SC 2/WG 2
PROPOSAL SUMMARY FORM TO ACCOMPANY SUBMISSIONS
FOR ADDITIONS TO THE REPERTOIRE OF ISO/IEC 10646¹**

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: **Proposal to encode GREEK BYZANTINE INDICTION SIGN : †**

2. Requester's name: **Dumbarton Oaks**

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

4. Submission date: **2014-07-18**

5. Requester's reference (if applicable):

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: **Ancient Greek Numbers: Ancient Greek Papyrological Numbers**

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 **yes**

F-Archaic Hieroglyphic or Ideographic ☐ G-Obscure or questionable usage symbols

4. 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?

5. Fonts related:

a. Who will provide the appropriate computerized font to the Project Editor of 10646 for publishing the standard? **Dumbarton Oaks**

b. Identify the party granting a license for use of the font by the editors (include address, e-mail, ftp-site, etc.): **Trustees for Harvard University, Dumbarton Oaks, 1703 32nd St. NW, Washington, DC 20007, kalvesmaki.com/athenaruby**

6. 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? **yes**

7. 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)? **no**

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

¹ Form number: N3702-F (Original 1994-10-14; Revised 1995-01, 1995-04, 1996-04, 1996-08, 1999-03, 2001-05, 2001-09, 2003-11, 2005-01, 2005-09, 2005-10, 2007-03, 2008-05, 2009-11)

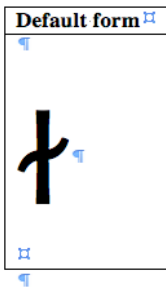
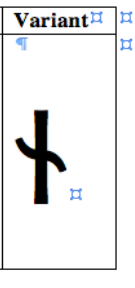
C. Technical - Justification

1. Has this proposal for addition of character(s) been submitted before?	<i>no</i>
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.)?	<i>yes</i>
If YES, with whom?	
<i>members of the scholarly community</i>	
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?	<i>yes</i>
Reference:	
<i>scholars of Byzantine inscriptions and papyri</i>	
4. The context of use for the proposed characters (type of use; common or rare)	<i>rare</i>
Reference:	
<i>common in antiquity; rare in modern typography</i>	
5. Are the proposed characters in current use by the user community?	<i>yes</i>
If YES, where? Reference:	
<i>see attached</i>	
6. After giving due considerations to the principles in the P&P document must the proposed characters be entirely in the BMP?	<i>no</i>
If YES, is a rationale provided?	
If YES, reference:	
7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)?	<i>yes</i>
8. Can any of the proposed characters be considered a presentation form of an existing character or character sequence?	<i>no</i>
If YES, is a rationale for its inclusion provided?	
If YES, reference:	
9. Can any of the proposed characters be encoded using a composed character sequence of either existing characters or other proposed characters?	<i>no</i>
If YES, is a rationale for its inclusion provided?	
If YES, reference:	
10. Can any of the proposed character(s) be considered to be similar (in appearance or function) to an existing character?	<i>no</i>
If YES, is a rationale for its inclusion provided?	
If YES, reference:	
11. Does the proposal include use of combining characters and/or use of composite sequences?	<i>no</i>
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:	
12. Does the proposal contain characters with any special properties such as control function or similar semantics?	<i>no</i>
If YES, describe in detail (include attachment if necessary)	
13. Does the proposal contain any Ideographic compatibility character(s)?	<i>no</i>
If YES, is the equivalent corresponding unified ideographic character(s) identified?	
If YES, reference:	

Proposal to encode GREEK BYZANTINE INDICTION SIGN

One of the major chronological markers in the Byzantine era was the indiction cycle of 15 years. This system for timekeeping entered use in the 4th century and was maintained even beyond the 15th century, when the (Byzantine) Roman Empire fell.

If it were not clear that a numeral signified an indiction year, a writer would sometimes use the abbreviation of an iota with a decorative crossbar (see depiction below). This abbreviation appears in Byzantine inscriptions of various media: seals and inscriptions. To our knowledge, it is not used in languages other than ancient Greek.

Default form	Variant
	

Drawn with Athena Ruby, Dumbarton Oaks' inscription font

We propose that this symbol be included in the Ancient Greek Numbers block, under the subheading Ancient Greek papyrological numbers, where there already exist a number of characters that symbolize not numbers (as the subhead would suggest) but time (U+10179), money (U+1017A..U+10180), and measures of volumes and weights (U+10181..U+10189). It would make sense, at a minimum, to keep the indiction sign near the year sign. Indeed, we suggest that this set of symbols is incomplete, so symbols such as the indiction sign should be given priority (see Annex H.8 from N3702 from ISO/IEC JTC 1/SC 2/WG 2, 2009 11 06).

Character properties

Proposed (on the basis of U+1018C, GREEK SINUSOID SIGN): GREEK BYZANTINE INDICTION SIGN;So;0;ON;;;;;N;;;;;

General category: So (symbol, other)
Line breaks: permitted before and after character
Casing information: none
Numeric information: nt (none)
Combining behaviour: combining allowed
Directional behaviour: left-to-right, strong
Unicode normalization: none
Other notes: frequently followed by a numeral

Bibliography

Oikonomides, Al. N., ed. *Abbreviations in Greek Inscriptions: Papyri, Manuscripts, and Early Printed Books: A Manual*. Chicago: Ares Publishers, 1974.
Oikonomides, Nicholas. *A Collection of Dated Byzantine Lead Seals*. Washington, DC, 1986.
Prentice, William Kelly. *Greek and Latin Inscriptions*, American Archaeological Expedition to Syria, 1899–1900, pub. no. 3. New York, 1908.
Avi-Yonah, M. *Abbreviations in Greek Inscriptions (the Near East, 200 B.C.–A.D. 1100)*. Jerusalem, 1940. [Reprinted in Oikonomides, *Abbreviations in Greek*. See p. 72]

Examples

Byzantine seals

Oikonomides, *Collection*, nos. 22, 30, 46 (examples from 7th, 8th, 9th c.)

Β - Ϡ | Ϡ - Β | Ϡ - Γ
ΙΟΥΛΙΑΝΟ.-.ΠΡΟΝΠΑΤΩΝ

Rev. Inscription of six lines. No border visible.

ΣΓΕΝ||ΚΟΚΟΜΜ|ΕΡΚΙΑΡ|ΧΑΠΟΘΗΚ|ΗΚΡΗΤ|ΗÇ



Ϡ-Β | Ϡ-Γ
..VNΕΤϠSNIKHTA-.....ΡΧΩΝ

Rev. Inscription of seven lines. No border visible.

..ΕΝΙΚ|.ΝΚΟΜΜΕΡ|.ΙΑΡΙΩΝΑΠΟ|.ΚΗΣΚΟΛΟΝ|..ΣΚΑΜΑΧΩ|.ΣΔΑΡΜΕ|ΝΙΑC



✠ | ✠

Rev. Inscription of four lines. Wreath border.
 +KΩ.Ç|TANTSBK O|MEP'ΘPAKSS|MAKΕΔS



Byzantine inscriptions
 Prentice, *Inscriptions*, 207 (403)



Inscr. 207. From a drawing. Scale 1:20.