ARGE Neue Medien

International data quality guideline 2.0

Description oft the CSV & EXCEL interface

ARGE Neue Medien e. V.
Technologiepark 12
D-33100 Paderborn
Phone. +49 5251 87288-0
E-Mail: info@arge.de
Internet: www.arge.de

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1 Excel work sheets

Overview of Excel worksheets available for data transmission

Work sheet	Description	Mandatory
Header	Header data for delivery	Yes
header_document_allocations	Document assignment at head level	No
article	Basic data of the article	Yes
raw_materials	Details of raw materials relating to article	No
article_attachments	Accessories to article	No
product_specific_text	Dimension texts on article	No
article_measures	Dimensions and weights of article	No
article_sets	Article sets	No
document_allocations	Image and document allocations to article	No
attributes_of_article	User-defined attributes of the article	No
long_texts	Long texts on article	No
groups	Definition of commodity groups, product groups, discount groups, bonus groups and mixed pallets	No
groups_document_allocations	Group document allocations	No

Overview of .csv files available for data transmission

Work sheet	Description	Mandatory
Header.csv	Header data for delivery	Yes
header_document_allocations.csv	Document assignment at head level	No
article.csv	Basic data of the article	Yes
raw_materials.csv	Details of raw materials relating to article	No
article_attachments.csv	Accessories to article	No
product_specific_text.csv	Dimension texts on article	No
article_measures.csv	Dimensions and weights of article	No
article_sets.csv	Article sets	No
document_allocations.csv	Image and document allocations to article	No
attributes_of_article.csv	User-defined attributes of the article	No
long_texts.csv	Long texts on article	No
groups.csv	Definition of commodity groups, product groups, discount groups, bonus groups and mixed pallets	No
groups_document_allocations	Group document allocations	No

2 Requirements

The following general requirements apply to all content

Character set	UTF 8
Standard scripts	Latin, Cyrillic
Languages	Czech, Danish, Dutch, English, Finnish, French, German, Italian, Norwegian, Polish, Portuguese, Rumanian, Russian, Serbian, Spanish, Swedish
Permitted character set based on UNICODE	U0020 - U007F Latin Basic without control character U00A0 - U00FF Latin-1 sub-element without control character U0100 - U017F Latin Extended-A U0400 - U04FF Cyrillic see Annex for permitted character set
Blank	
Line separator	CR LF
Field separator	Semicolon (;)
Text isolation character	Inverted commas (")
Escape character	Inverted commas (")
Decimal separator	comma (,)
Thousands separator	Not used
Date format	DDMMYYYY (31122012) (valid range: 01011900-31122099)
Boolean	"true" / "false"
GTIN (EAN)	13 digits, numerical with valid check digit
Code lists	See Annex
Header line	Every work sheet must contain a header line

3 Work sheets

3.1 header.csv / Excel sheet „header“

Lfd Nr.	Column	Name	Description	Mandatory	Structure
1	A	manufacturers_short_name	Manufacturer's short name	Mandatory	String 20
2	B	manufacturer_ID	Manufacturer ID	Optional	String 35
3	C	manufacturer_abbreviation	2-character ARGE manufacturer abbreviation	Conditional mandatory	String 2
4	D	manufacturer_GLN	Manufacturer GLN	Optional	String 13
5	E	manufacturer_DUNS	Manufacturer DUNS	Optional	String 9
6	F	catalogue_ID	Catalogue ID	Optional	String 35
7	G	catalogue_name	Catalogue name	Mandatory	String 35
8	H	start_of_validity	Notification valid from	Mandatory	Date (DDMMYYYY)
9	I	end_of_validity	Notification valid until	Mandatory	Date (DDMMYYYY)
10	J	data_delivery_designation	Clear text description of data consignment	Mandatory	String 40

3.2 header_document_allocations.csv / Excel sheet „header_document_allocations“

Lfd Nr.	Column	Name	Description	Mandatory	Structure
1	A	manufacturers_short_name	Manufacturer's short name	Mandatory	String 20
2	B	document	Name of the document file	Optional	String 35
3	C	document_type	Specification of document type	Conditional mandatory	Code list *2 Document type*
4	D	image_use	Specification of image usage (web image or printed image)	Conditional mandatory	Code list *3 Image usage*
5	E	document_designation	Detailed description of contents of assigned documents	Optional	String 40
6	F	document_sequence	Specification of sorting sequence when several documents are assigned to the data consignment	Optional	Integer

3.3 article.csv / Excel sheet „article“

Lfd Nr.	Column	Name	Description	Mandatory	Format
1	A	manufacturers_short_name	Manufacturer's short name	Mandatory	String 20
2	B	factory_article_number	Unique article number	Mandatory	String 35
3	C	GTIN (EAN)	GTIN (EAN)	Optional	GTIN
4	D	article_type	Specification of article type	Mandatory	Code list *1 Article types*
5	E	start of validity	Date from which the data apply for the article	Conditional mandatory	Date (DDMMYYYY)
6	F	end of validity	Date on which the data become invalid for the article	Conditional mandatory	Date (DDMMYYYY)
7	G	short_text_1	Max. 40 characters possible, observe sequence of attributes	Mandatory	String 40
8	H	short_text_2	Max. 40 characters; logical separation from short text 1 without continuous text or hyphenation; observe sequence of attributes	Optional	String 40
9	I	commodity_group_ID	Reference to the commodity group The group must be contained in the file groups.csv	Mandatory	String 3
10	J	product_group_ID	Reference to the product group The group must be contained in the file groups.csv	Mandatory	String 10
11	K	discount_group_ID	Reference to the discount group The group must be contained in the file groups.csv	Optional	String 4
12	L	bonus_group_ID	Reference to the bonus group The group must be contained in the file groups.csv	Optional	String 35
13	M	min_order_quantity	Minimum order quantity	Mandatory	Decimal 15,3

Lfd Nr.	Column	Name	Description	Mandatory	Format
14	N	min_order_unit	Minimum order quantity unit	Mandatory	Code list *5 Units of measure*
15	O	factory_article_number_catalogue	Unique article number in employed catalogue	Optional	String 50
16	P	alternative_article	Article number of the alternative article	Optional	String 35
17	Q	follow-up_article_number_1	Article number of the first follow-up article	Conditional mandatory	String 35
18	R	follow-up_article_number_2	Article number of the second follow-up article	Optional	String 35
19	S	follow-up_article_number_3	Article number of the thrid follow-up article	Optional	String 35
20	T	long_text_number	Identification number	Optional	String 8
21	U	deep_link_URL	Specification of deep link URL	Optional	String 200
22	V	deep_link_description	Description of deep link	Optional	String 200
23	W	discontinuation_article	Designation of follow-up article and use of a follow-up article	Mandatory	Code list *11 Phase-out ID*
24	X	discontinuation_date	Specification of expected phase-out date if the article concerned is identified as a phase-out article	Conditional mandatory	Date (DDMMYYYY)
25	Y	exportable	Indication of whether the article is suitable for export	Optional	Boolean
26	Z	commodity_number	Statistical commodity group number which is required for customs declaration (import/export) and Intrastat notifications	Conditional mandatory	Integer 8
27	AA	country_of_origin	Country of origin: The country in which the article was produced or in which the last substantial processing work took place	Conditional mandatory	Code list *15 Country*
28	AB	hazardous_material_ID	Hazardous material ID	Optional	Boolean
29	AC	UN_number	Article number of the hazardous material	Optional	String 35

Lfd Nr.	Column	Name	Description	Mandatory	Format
30	AD	danger_class	Specification of danger class	Optional	Code list *8 Danger class*
31	AE	carriage_category	Important information regarding transportation of the article	Optional	Code list *14 Carriage category*
32	AF	durability_period	Specification of use-by period in 1-99 months (“99” denotes no time restrictions)	Optional	Integer
33	AG	check_number	Specification of check number of consumer protection association pertaining to allocation of the ‘GS’ tested safety mark	Optional	String 35
34	AH	price_on_request	Specification as to whether price will only be provided on request	Mandatory	Boolean
35	AI	measure_A	Dimension A of packaged basic article incl. packaging	Conditional mandatory	Decimal 16,3
36	AJ	measure_unit_A	Unit of measure for dimension A	Conditional mandatory	Code list *5 Units of measure*
37	AK	measure_B	Dimension B of packaged basic article incl. packaging	Conditional mandatory	Decimal 16,3
38	AL	measure_unit_B	Unit of measure for dimension B	Conditional mandatory	Code list *5 Units of measure*
39	AM	measure_C	Dimension C of packaged basic article incl. packaging	Conditional mandatory	Decimal 16,3
40	AN	measure_unit_C	Unit of measure for dimension C	Conditional mandatory	Code list *5 Units of measure*
41	AO	weight	Specification of weight of basic article	Conditional mandatory	Decimal 18,3
42	AP	weight_unit	Unit of measure of weight of basic article	Conditional mandatory	Code list *5 Units of measure*
43	AQ	packaging_quantity	Specification of number of packages of which the basic article consists	Optional	Integer
44	AR	value_added_tax_class	VAT rate of the article	Optional	Decimal 2,2

Lfd Nr.	Column	Name	Description	Mandatory	Format
45	AS	energy_efficiency_category	Specification of an energy efficiency category from A+++ to G in accordance with the EU regulation	Optional	Code list *13 Efficiency category*
46	AT	standard_delivery_period	Specification of a delivery period, given in workdays	Optional	Integer
47	AU	factory_list_price_value	Price specification according to different price types	Conditional mandatory	Decimal 18,2
48	AV	factory_list_price_currency	Specification of currency in which price is stated	Conditional mandatory	Code list *9 Currency*
49	AW	factory_list price_basis	Quantity of the article on which the price is based Only the values 1,10,100,1000 are permitted.	Conditional mandatory	Integer 9
50	AX	factory_list_price_price_quantity_unit	Unit of quantity of the article on which the price is based	Conditional mandatory	Code list *5 Units of measure*
51	AY	RRP_price_value	Price specification according to different price types	Optional	Decimal 18,2
52	AZ	RRP_currency	Specification of currency in which price is stated	Conditional mandatory	Code list *9 Currency*
53	BA	RRP_price_basis	Quantity of the article on which the price is based Only the values 1,10,100,1000 are permitted.	Conditional mandatory	Integer 9
54	BB	RRP_quantity_unit	Unit of quantity of the article on which the price is based	Conditional mandatory	Code list *5 Units of measure*
55	BC	packaging_unit_1_packaging_type	Definition of the type of packaging of packaging unit 1	Conditional mandatory	Code list *7 Type of packaging*
56	BD	packaging_unit_1_quantity	Number of basic articles included in packaging unit 1	Conditional mandatory	Decimal 18,3
57	BE	packaging_unit_1_quantity_unit	Unit of quantity of basic articles included in packaging unit 1	Optional	Code list *5 Units of measure*

Lfd Nr.	Column	Name	Description	Mandatory	Format
58	BF	packaging_unit_1_GTIN_EAN	Allocation of a new GTIN/EAN for packaging unit 1	Conditional mandatory	GTIN format
59	BG	packaging_unit_1_measure_A	Dimension A of packaging unit 1	Conditional mandatory	Decimal 18,3
60	BH	packaging_unit_1_measure_A_unit	Measure unit for dimension A	Conditional mandatory	Code list *5 Units of measure*
61	BI	packaging_unit_1_measure_B	Dimension B of packaging unit 1	Conditional mandatory	Decimal 18,3
62	BJ	packaging_unit_1_measure_B_unit	Measure unit for dimension B	Conditional mandatory	Code list *5 Units of measure*
ö63	BK	packaging_unit_1_measure_C	Dimension C of packaging unit 1	Conditional mandatory	Decimal 18,3
64	BL	packaging_unit_1_measure_C_unit	Measure unit for dimension C	Conditional mandatory	Code list *5 Units of measure*
65	BM	packaging_unit_1_weight	Weight of packaging unit 1	Conditional mandatory	Decimal 18,3
66	BN	packaging_unit_1_weight_unit	Unit of measure of weight of packaging unit 2	Conditional mandatory	Code list *5 Units of measure*
67	BO	packaging_unit_2_packaging_type	Definition of the type of packaging of VPE 2	Conditional mandatory	Code list *7 Type of packaging*
68	BP	packaging_unit_2_quantity	Number of basic articles included in VPE 2	Conditional mandatory	Decimal 18,3
69	BQ	packaging_unit_2_quantity_unit	Unit of quantity of basic articles included in VPE 2	Conditional mandatory	Code list *5 Units of measure*
70	BR	packaging_unit_2_GTIN_EAN	Allocation of a new GTIN/EAN for VPE 2	Optional	GTIN format
71	BS	packaging_unit_2_measure_A	Dimension A of packaging unit 2	Conditional mandatory	Decimal 18,3
72	BT	packaging_unit_2_measure_A_unit	Measure unit for dimension A	Conditional mandatory	Code list *5 Units of measure*

Lfd Nr.	Column	Name	Description	Mandatory	Format
73	BU	packaging_unit_2_measure_B	Dimension B of packaging unit 2	Conditional mandatory	Decimal 18,3
74	BV	packaging_unit_2_measure_B_unit	Measure unit for dimension B	Conditional mandatory	Code list *5 Units of measure*
75	BW	packaging_unit_2_measure_C	Dimension C of packaging unit 2	Conditional mandatory	Decimal 18,3
76	BX	packaging_unit_2_measure_C_unit	Measure unit for dimension C	Conditional mandatory	Code list *5 Units of measure*
77	BY	packaging_unit_2_weight	Weight of packaging unit 2	Conditional mandatory	Decimal 18,3
78	BZ	packaging_unit_2_weight_unit	Unit of measure of weight of packaging unit 2	Conditional mandatory	Code list *5 Units of measure*
79	CA	packaging_unit_3_packaging_type	Definition of the type of packaging of VPE 3	Conditional mandatory	Code list *7 Type of packaging*
80	CB	packaging_unit_3_quantity	Number of basic articles included in VPE 3	Conditional mandatory	Decimal 18,3
81	CC	packaging_unit_3_quantity_unit	Unit of quantity of basic articles included in VPE 3	Conditional mandatory	Code list *5 Units of measure*
82	CD	packaging_unit_3_GTIN_EAN	Allocation of a new GTIN/EAN for VPE 3	Optional	GTIN format
83	CE	packaging_unit_3_measure_A	Dimension A of packaging unit 3	Conditional mandatory	Decimal 18,3
84	CF	packaging_unit_3_measure_A_unit	Measure unit for dimension A	Conditional mandatory	Code list *5 Units of measure*
85	CG	packaging_unit_3_measure_B	Dimension B of packaging unit 3	Conditional mandatory	Decimal 18,3
86	CH	packaging_unit_3_measure_B_unit	Measure unit for dimension B	Conditional mandatory	Code list *5 Units of measure*
87	CI	packaging_unit_3_measure_C	Dimension C of packaging unit 3	Conditional mandatory	Decimal 18,3

Lfd Nr.	Column	Name	Description	Mandatory	Format
88	CJ	packaging_unit_3_measure_C_unit	Measure unit for dimension C	Conditional mandatory	Code list *5 Units of measure*
89	CK	packaging_unit_3_weight	Weight of packaging unit 3	Conditional mandatory	Decimal 18,3
90	CL	packaging_unit_3_weight_unit	Unit of measure of weight of packaging unit 3	Conditional mandatory	Code list *5 Units of measure*
91	CM	packaging_unit_4_packaging_type	Definition of the type of packaging of VPE 4	Conditional mandatory	Code list *7 Type of packaging*
92	CN	packaging_unit_4_quantity	Number of basic articles included in VPE 4	Conditional mandatory	Decimal 18,3
93	CO	packaging_unit_4_quantity_unit	Unit of quantity of basic articles included in VPE 4	Conditional mandatory	Code list *5 Units of measure*
94	CP	packaging_unit_4_GTIN_EAN	Allocation of a new GTIN/EAN for VPE 4	Optional	GTIN format
95	CQ	packaging_unit_4_measure_A	Dimension A of packaging unit 4	Conditional mandatory	Decimal 18,3
96	CR	packaging_unit_4_measure_A_unit	Measure unit for dimension A	Conditional mandatory	Code list *5 Units of measure*
97	CS	packaging_unit_4_measure_B	Dimension B of packaging unit 4	Conditional mandatory	Decimal 18,3
98	CT	packaging_unit_4_measure_B_unit	Measure unit for dimension B	Conditional mandatory	Code list *5 Units of measure*
99	CU	packaging_unit_4_measure_C	Dimension C of packaging unit 4	Conditional mandatory	Decimal 18,3
100	CV	packaging_unit_4_measure_C_unit	Measure unit for dimension C	Conditional mandatory	Code list *5 Units of measure*
101	CW	packaging_unit_4_weight	Weight of packaging unit 4	Conditional mandatory	Decimal 18,3

Lfd Nr.	Column	Name	Description	Mandatory	Format
102	CX	packaging_unit_4_weight_unit	Unit of measure of weight of packaging unit 4	Conditional mandatory	Code list *5 Units of measure*
103	CY	packaging_unit_5_packaging_type	Definition of the type of packaging of VPE 5	Conditional mandatory	Code list *7 Type of packaging*
104	CZ	packaging_unit_5_quantity	Number of basic articles included in VPE 5	Conditional mandatory	Decimal 18,3
105	DA	packaging_unit_5_quantity_unit	Unit of quantity of basic articles included in VPE 5	Conditional mandatory	Code list *5 Units of measure*
106	DB	packaging_unit_5_GTIN_EAN	Allocation of a new GTIN/EAN for VPE 5	Optional	GTIN format
107	DC	packaging_unit_5_measure_A	Dimension A of packaging unit 5	Conditional mandatory	Decimal 18,3
108	DD	packaging_unit_5_measure_A_unit	Measure unit for dimension A	Conditional mandatory	Code list *5 Units of measure*
109	DE	packaging_unit_5_measure_B	Dimension B of packaging unit 5	Conditional mandatory	Decimal 18,3
110	DF	packaging_unit_5_measure_B_unit	Measure unit for dimension B	Conditional mandatory	Code list *5 Units of measure*
111	DG	packaging_unit_5_measure_C	Dimension C of packaging unit 5	Conditional mandatory	Decimal 18,3
112	DH	packaging_unit_5_measure_C_unit	Measure unit for dimension C	Conditional mandatory	Code list *5 Units of measure*
113	DI	packaging_unit_5_weight	Weight of packaging unit 5	Conditional mandatory	Decimal 18,3
114	DJ	packaging_unit_5_weight_unit	Unit of measure of weight of packaging unit 5	Conditional mandatory	Code list *5 Units of measure*

3.4 raw_materials.csv / Excel sheet “raw_materials”

Lfd Nr.	Column	Name	Description	Mandatory	Format
1	A	manufacturers_short_name	Specification of manufacturer	Conditional mandatory	String 20
2	B	factory_article_number	Factory article number - The article number must be contained in the file article.csv	Conditional mandatory	String 35
3	C	material	Specification of raw material	Conditional mandatory	Code list *4 Raw material*
4	D	weight_basis	Total weight of the article	Conditional mandatory	Decimal 18,4
5	E	basis_unit	Unit of weight	Conditional mandatory	Code list *5 Units of measure*
6	F	proportion_by_weight	Proportion by weight of the said raw material in percent	Conditional mandatory	Decimal 18,4
7	G	proportion_unit	Unit for proportion of the raw material by weight	Conditional mandatory	Code list *5 Units of measure*
8	H	quotation_of_raw_material	Raw material price applied in calculating the article price	Optional	Decimal 15,2

3.5 article_attachments.csv / Excel sheet “article_attachments”

Lfd Nr.	Column	Name	Description	Mandatory	Format
1	A	manufacturers_short_name	Specification of manufacturer	Conditional mandatory	String 20
2	B	factory_article_number	Factory article number - The article number must be contained in the file article.csv	Conditional mandatory	String 35
3	C	article_attachment_number	Factory article number of the accessory	Conditional mandatory	String 35
4	D	article_designation	Indication as to whether the accessory is necessary in order to use the product	Conditional mandatory	Boolean
5	E	quantity	Number of accessories allocated to a product	Conditional mandatory	Decimal 18,3
6	F	quantity_unit	Unit of quantity of allocated article	Conditional mandatory	Code list *5 Units of measure*

3.6 product_specific_text.csv / Excel sheet “product_specific_text”

Lfd Nr.	Column	Name	Description	Mandatory	Format
1	A	manufacturers_short_name	Manufacturer's short name	Conditional mandatory	String 20
2	B	factory_article_number	Unique article number	Conditional mandatory	String 35
3	C	product_specific_text_line_number	Serial line number of the product specific text 1-99	Conditional mandatory	Integer 2
4	D	product_specific_text_line	Text content	Conditional mandatory	String 40

3.7 article_measures.csv / Excel sheet “article_measures”

Lfd Nr.	Column	Name	Description	Mandatory	Format
1	A	manufacturers_short_name	Manufacturer's short name	Conditional mandatory	String 20
2	B	factory_article_number	Unique article number	Conditional mandatory	String 35
3	C	measure_ID	Specification of weight and dimensions of an article	Conditional mandatory	Code list *6 Dimensions*
4	D	measure_value	Dimension/weight value: value must be greater than 0	Conditional mandatory	Decimal 18,3
5	E	measure_unit	Unit of measure/weight	Conditional mandatory	Code list *5 Units of measure*

3.8 article_sets.csv / Excel sheet “article_sets”

Lfd Nr.	Serial No.	Content	Description	Mandatory	Format
1	A	manufacturers_short_name	Manufacturer's short name	Conditional mandatory	String 20
2	B	factory_article_number	Unique article number	Conditional mandatory	String 35
3	C	allocated_article	Article number of the allocated article	Conditional mandatory	String 35
4	D	quantity	Number of allocated articles for the relevant article set/package	Conditional mandatory	Decimal 18,3
5	E	quantity_unit	Unit of quantity of allocated article	Conditional mandatory	Code list *5 Units of measure*

3.9 document_allocations

Lfd Nr.	Column	Name	Description	Mandatory	Format
1	A	manufacturers_short_name	Manufacturer's short name	Conditional mandatory	String 20
2	B	factory_article_number	Unique article number	Conditional mandatory	String 35
3	C	document	Name of the document file	Conditional mandatory	String 35
4	D	document_type	Specification of document type	Conditional mandatory	Code list *2 Document type*
5	E	image_Use	Web image or print image: Specification only relevant for images.	Conditional mandatory	Code list *3 Image use*
6	F	substitute_ID	Indication of whether the image shows a substitute article	Conditional mandatory	Boolean
7	G	document_description	Detailed description of content of allocated documents	Optional	String 40
8	H	document_sort_sequence	Specification of sorting sequence when several documents are assigned to the overall data consignment	Optional	Integer 3

3.10 attributes_of_article

Lfd Nr.	Column	Name	Description	Mandatory	Format
1	A	manufacturers_short_name	Manufacturer short name	Conditional mandatory	String 20
2	B	factory_article_number	Unique item number	Conditional mandatory	String 35
3	C	attribute_system	Unique name of the system (ETIM, Heating Label…)	Conditional mandatory	Codeliste *14 System of attributes*
4	D	attribute_class	Class attribute or ETIM class ID	Optional	String 35
6	E	attribute_feature	Characteristic of the attribute or ETIM feature ID	Conditional mandatory	String 35
7	F	attribute_value	Value of the attribute or ETIM Value ID	Conditional mandatory	String 35
8	G	attribute_unit	Unit of the attribute	Optional	String 35

3.11 long_text.csv / Excel sheet “long_text”

Lfd Nr.	Column	Name	Description	Mandatory	Format
1	A	manufacturers_short_name	Manufacturer's short name	Conditional mandatory	String 20
2	B	long_text_number	Identification number	Conditional mandatory	String 8
3	C	long_text_line_number	Serial line number of the long text 1-99	Conditional mandatory	Integer 2
4	D	long_text_line	Text content: maximum 40 characters per line	Conditional mandatory	String 40

3.12 groups.csv / Excel sheet “groups”

Lfd Nr.	Column	Name	Description	Mandatory	Format
1	A	manufacturers_short_name	Manufacturer's short name	Mandatory	String 20
2	B	group_type	Specification of group type	Mandatory	Code list *11 Group type*
3	C	group_number	Specification of group ID	Mandatory	String 35
4	D	group_designation	Clear text description of classification	Mandatory	String 40

3.13 groups_document_allocations.csv / Excel sheet “groups_document_allocations”

Lfd Nr.	Column	Name	Description	Mandatory	Format
1	A	manufacturers_short_name	Manufacturer's short name	Conditional mandatory	String 20
2	B	group_type	Specification of group type	Conditional mandatory	Code list *11 Group type*
3	C	group_number	Specification of group ID	Conditional mandatory	String 35
4	D	document	Name of the document	Conditional mandatory	String 35
5	E	image_Use	Web image or print image: Specification only relevant for images.	Conditional mandatory	Code list *3 Image use*
6	F	document_tye	Marking whether the frame is a deputy	Conditional mandatory	Code list *2 Document type*
7	G	document_description	Detailed description of content of allocated documents	Optional	String 40
8	H	document_sort_sequence	Specification of sorting sequence when several documents are assigned to the overall data consignment	Optional	Integer

4 Permitted character set

4.1 U0020 - U007F Latin Basic without control character

Unicode code pos.	Character	UTF-8 (hex.)	Name
U+0021	!	21	EXCLAMATION MARK
U+0022	"	22	QUOTATION MARK
U+0023	#	23	NUMBER SIGN
U+0024	$	24	DOLLAR SIGN
U+0025	%	25	PERCENT SIGN
U+0026	&	26	AMPERSAND
U+0027	'	27	APOSTROPHE
U+0028	(	28	LEFT PARENTHESIS
U+0029	)	29	RIGHT PARENTHESIS
U+002A	*	2a	ASTERISK
U+002B	+	2b	PLUS SIGN
U+002C	,	2c	COMMA
U+002D	-	2d	HYPHEN-MINUS
U+002E	.	2e	FULL STOP
U+002F	/	2f	SOLIDUS
U+0030	0	30	DIGIT ZERO
U+0031	1	31	DIGIT ONE
U+0032	2	32	DIGIT TWO
U+0033	3	33	DIGIT THREE
U+0034	4	34	DIGIT FOUR
U+0035	5	35	DIGIT FIVE
U+0036	6	36	DIGIT SIX
U+0037	7	37	DIGIT SEVEN
U+0038	8	38	DIGIT EIGHT
U+0039	9	39	DIGIT NINE
U+003A	:	3a	COLON
U+003B	;	3b	SEMICOLON
U+003C	<	3c	LESS-THAN SIGN
U+003D	=	3d	EQUALS SIGN
U+003E	>	3e	GREATER-THAN SIGN
U+003F	?	3f	QUESTION MARK
U+0040	@	40	COMMERCIAL AT
U+0041	A	41	LATIN CAPITAL LETTER A

Unicode code pos.	Character	UTF-8 (hex.)	Name
U+0042	B	42	LATIN CAPITAL LETTER B
U+0043	C	43	LATIN CAPITAL LETTER C
U+0044	D	44	LATIN CAPITAL LETTER D
U+0045	E	45	LATIN CAPITAL LETTER E
U+0046	F	46	LATIN CAPITAL LETTER F
U+0047	G	47	LATIN CAPITAL LETTER G
U+0048	H	48	LATIN CAPITAL LETTER H
U+0049	I	49	LATIN CAPITAL LETTER I
U+004A	J	4a	LATIN CAPITAL LETTER J
U+004B	K	4b	LATIN CAPITAL LETTER K
U+004C	L		LATIN CAPITAL LETTER L
U+004D	M	4d	LATIN CAPITAL LETTER M
U+004E	N	4e	LATIN CAPITAL LETTER N
U+004F	O	4f	LATIN CAPITAL LETTER O
U+0050	P	50	LATIN CAPITAL LETTER P
U+0051	Q	51	LATIN CAPITAL LETTER Q
U+0052	R	52	LATIN CAPITAL LETTER R
U+0053	S	53	LATIN CAPITAL LETTER S
U+0054	T	54	LATIN CAPITAL LETTER T
U+0055	U	55	LATIN CAPITAL LETTER T
U+0056	V	56	LATIN CAPITAL LETTER V
U+0057	W	57	LATIN CAPITAL LETTER W
U+0058	X	58	LATIN CAPITAL LETTER X
U+0059	Y	59	LATIN CAPITAL LETTER Y
U+005A	Z	5a	LATIN CAPITAL LETTER Z
U+005B	[	5b	LEFT SQUARE BRACKET
U+005C	\	5c	REVERSE SOLIDUS
U+005D	]	5d	RIGHT SQUARE BRACKET
U+005E	^	5e	CIRCUMFLEX ACCENT
U+005F	_	5f	LOW LINE
U+0060	`	60	GRAVE ACCENT
U+0061	a	61	LATIN SMALL LETTER A
U+0062	b	62	LATIN SMALL LETTER B
U+0063	c	63	LATIN SMALL LETTER C
U+0064	d	64	LATIN SMALL LETTER D
U+0065	e	65	LATIN SMALL LETTER E

Unicode code pos.	Character	UTF-8 (hex.)	Name
U+0066	f	66	LATIN SMALL LETTER F
U+0067	g	67	LATIN SMALL LETTER G
U+0068	h	68	LATIN SMALL LETTER H
U+0069	i	69	LATIN SMALL LETTER I
U+006A	j	6a	LATIN SMALL LETTER J
U+006B	k	6b	LATIN SMALL LETTER K
U+006C	l	6c	LATIN SMALL LETTER L
U+006D	m	6d	LATIN SMALL LETTER M
U+006E	n	6e	LATIN SMALL LETTER N
U+006F	o	6f	LATIN SMALL LETTER O
U+0070	p	70	LATIN SMALL LETTER P
U+0071	q	71	LATIN SMALL LETTER Q
U+0072	r	72	LATIN SMALL LETTER R
U+0073	s	73	LATIN SMALL LETTER S
U+0074	t	74	LATIN SMALL LETTER T
U+0075	u	75	LATIN SMALL LETTER U
U+0076	v	76	LATIN SMALL LETTER V
U+0077	w	77	LATIN SMALL LETTER W
U+0078	x	78	LATIN SMALL LETTER X
U+0079	y	79	LATIN SMALL LETTER Y
U+007A	z	7a	LATIN SMALL LETTER Z
U+007B	{	7b	LEFT CURLY BRACKET
U+007C	|	7c	VERTICAL LINE
U+007D	}	7d	RIGHT CURLY BRACKET
U+007E	~	7e	TILDE

4.2 U00A0 - U00FF Latin 1 Supplement

Unicode code pos.	Character	UTF-8 (hex.)	Name
U+00A1	¡	c2 a1	INVERTED EXCLAMATION MARK
U+00A2	¢	c2 a2	CENT SIGN
U+00A3	£	c2 a3	POUND SIGN
U+00A4	¤	c2 a4	CURRENCY SIGN
U+00A5	¥	c2 a5	YEN SIGN
U+00A6	¦	c2 a6	BROKEN BAR
U+00A7	§	c2 a7	SECTION SIGN
U+00A8	¨	c2 a8	DIAERESIS
U+00A9	©	c2 a9	COPYRIGHT SIGN
U+00AA	ª	c2 aa	FEMININE ORDINAL INDICATOR
U+00AB	«	c2 ab	LEFT-POINTING DOUBLE ANGLE QUOTATION MARK
U+00AC	¬	c2 ac	NOT SIGN
U+00AD		c2 ad	SOFT HYPHEN
U+00AE	®	c2 ae	REGISTERED SIGN
U+00AF	¯	c2 af	MACRON
U+00B0	°	c2 b0	DEGREE SIGN
U+00B1	±	c2 b1	PLUS-MINUS SIGN
U+00B2	²	c2 b2	SUPERSCRIPT TWO
U+00B3	³	c2 b3	SUPERSCRIPT THREE
U+00B4	´	c2 b4	ACUTE ACCENT
U+00B5	µ	c2 b5	MICRO SIGN
U+00B6	¶	c2 b6	PILCROW SIGN
U+00B7	·	c2 b7	MIDDLE DOT
U+00B8	¸	c2 b8	CEDILLA
U+00B9	¹	c2 b9	SUPERSCRIPT ONE
U+00BA	º	c2 ba	MASCULINE ORDINAL INDICATOR
U+00BB	»	c2 bb	RIGHT-POINTING DOUBLE ANGLE QUOTATION MARK
U+00BC	¼	c2 bc	VULGAR FRACTION ONE QUARTER
U+00BD	½	c2 bd	VULGAR FRACTION ONE HALF
U+00BE	¾	c2 be	VULGAR FRACTION THREE QUARTERS
U+00BF	¿	c2 bf	INVERTED QUESTION MARK
U+00C0	À	c3 80	LATIN CAPITAL LETTER A WITH GRAVE
U+00C1	Á	c3 81	LATIN CAPITAL LETTER A WITH ACUTE
U+00C2	Â	c3 82	LATIN CAPITAL LETTER A WITH CIRCUMFLEX
U+00C3	Ã	c3 83	LATIN CAPITAL LETTER A WITH TILDE

Unicode code pos.	Character	UTF-8 (hex.)	Name
U+00C4	Ä	c3 84	LATIN CAPITAL LETTER A WITH DIAERESIS
U+00C5	Å	c3 85	LATIN CAPITAL LETTER A WITH RING ABOVE
U+00C6	Æ	c3 86	LATIN CAPITAL LETTER AE
U+00C7	Ç	c3 87	LATIN CAPITAL LETTER C WITH CEDILLA
U+00C8	È	c3 88	LATIN CAPITAL LETTER E WITH GRAVE
U+00C9	É	c3 89	LATIN CAPITAL LETTER E WITH ACUTE
U+00CA	Ê	c3 8a	LATIN CAPITAL LETTER E WITH CIRCUMFLEX
U+00CB	Ë	c3 8b	LATIN CAPITAL LETTER E WITH DIAERESIS
U+00CC	Ì	c3 8c	LATIN CAPITAL LETTER I WITH GRAVE
U+00CD	Í	c3 8d	LATIN CAPITAL LETTER I WITH ACUTE
U+00CE	Î	c3 8e	LATIN CAPITAL LETTER I WITH CIRCUMFLEX
U+00CF	Ï	c3 8f	LATIN CAPITAL LETTER I WITH DIAERESIS
U+00D0	Ð	c3 90	LATIN CAPITAL LETTER ETH
U+00D1	Ñ	c3 91	LATIN CAPITAL LETTER N WITH TILDE
U+00D2	Ò	c3 92	LATIN CAPITAL LETTER O WITH GRAVE
U+00D3	Ó	c3 93	LATIN CAPITAL LETTER O WITH ACUTE
U+00D4	Ô	c3 94	LATIN CAPITAL LETTER O WITH CIRCUMFLEX
U+00D5	Õ	c3 95	LATIN CAPITAL LETTER O WITH TILDE
U+00D6	Ö	c3 96	LATIN CAPITAL LETTER O WITH DIAERESIS
U+00D7	×	c3 97	MULTIPLICATION SIGN
U+00D8	Ø	c3 98	LATIN CAPITAL LETTER O WITH STROKE
U+00D9	Ù	c3 99	LATIN CAPITAL LETTER U WITH GRAVE
U+00DA	Ú	c3 9a	LATIN CAPITAL LETTER U WITH ACUTE
U+00DB	Û	c3 9b	LATIN CAPITAL LETTER U WITH CIRCUMFLEX
U+00DC	Ü	c3 9c	LATIN CAPITAL LETTER U WITH DIAERESIS
U+00DD	Ý	c3 9d	LATIN CAPITAL LETTER Y WITH ACUTE
U+00DE	Þ	c3 9e	LATIN CAPITAL LETTER THORN
U+00DF	ß	c3 9f	LATIN SMALL LETTER SHARP S
U+00E0	à	c3 a0	LATIN SMALL LETTER A WITH GRAVE
U+00E1	á	c3 a1	LATIN SMALL LETTER A WITH ACUTE
U+00E2	â	c3 a2	LATIN SMALL LETTER A WITH CIRCUMFLEX
U+00E3	ã	c3 a3	LATIN SMALL LETTER A WITH TILDE
U+00E4	ä	c3 a4	LATIN SMALL LETTER A WITH DIAERESIS
U+00E5	å	c3 a5	LATIN SMALL LETTER A WITH RING ABOVE
U+00E6	æ	c3 a6	LATIN SMALL LETTER AE
U+00E7	ç	c3 a7	LATIN SMALL LETTER C WITH CEDILLA

Unicode code pos.	Character	UTF-8 (hex.)	Name
U+00E8	è	c3 a8	LATIN SMALL LETTER E WITH GRAVE
U+00E9	é	c3 a9	LATIN SMALL LETTER E WITH ACUTE
U+00EA	ê	c3 aa	LATIN SMALL LETTER E WITH CIRCUMFLEX
U+00EB	ë	c3 ab	LATIN SMALL LETTER E WITH DIAERESIS
U+00EC	ì	c3 ac	LATIN SMALL LETTER I WITH GRAVE
U+00ED	í	c3 ad	LATIN SMALL LETTER I WITH ACUTE
U+00EE	î	c3 ae	LATIN SMALL LETTER I WITH CIRCUMFLEX
U+00EF	ï	c3 af	LATIN SMALL LETTER I WITH DIAERESIS
U+00F0	ð	c3 b0	LATIN SMALL LETTER ETH
U+00F1	ñ	c3 b1	LATIN SMALL LETTER N WITH TILDE
U+00F2	ò	c3 b2	LATIN SMALL LETTER O WITH GRAVE
U+00F3	ó	c3 b3	LATIN SMALL LETTER O WITH ACUTE
U+00F4	ô	c3 b4	LATIN SMALL LETTER O WITH CIRCUMFLEX
U+00F5	õ	c3 b5	LATIN SMALL LETTER O WITH TILDE
U+00F6	ö	c3 b6	LATIN SMALL LETTER O WITH DIAERESIS
U+00F7	÷	c3 b7	DIVISION SIGN
U+00F8	ø	c3 b8	LATIN SMALL LETTER O WITH STROKE
U+00F9	ù	c3 b9	LATIN SMALL LETTER U WITH GRAVE
U+00FA	ú	c3 ba	LATIN SMALL LETTER U WITH ACUTE
U+00FB	û	c3 bb	LATIN SMALL LETTER U WITH CIRCUMFLEX
U+00FC	ü	c3 bc	LATIN SMALL LETTER U WITH DIAERESIS
U+00FD	ý	c3 bd	LATIN SMALL LETTER Y WITH ACUTE
U+00FE	þ	c3 be	LATIN SMALL LETTER THORN
U+00FF	ÿ	c3 bf	LATIN SMALL LETTER Y WITH DIAERESIS

4.3 U0100 - U017F Latin Extended-A

Unicode code pos.	Character	UTF-8 (hex.)	Name
U+0100	Ā	c4 80	LATIN CAPITAL LETTER A WITH MACRON
U+0101	ā	c4 81	LATIN SMALL LETTER A WITH MACRON
U+0102	Ă	c4 82	LATIN CAPITAL LETTER A WITH BREVE
U+0103	ă	c4 83	LATIN SMALL LETTER A WITH BREVE
U+0104	Ą	c4 84	LATIN CAPITAL LETTER A WITH OGONEK
U+0105	ą	c4 85	LATIN SMALL LETTER A WITH OGONEK
U+0106	Ć	c4 86	LATIN CAPITAL LETTER C WITH ACUTE
U+0107	ć	c4 87	LATIN SMALL LETTER C WITH ACUTE
U+0108	Ĉ	c4 88	LATIN CAPITAL LETTER C WITH CIRCUMFLEX
U+0109	ĉ	c4 89	LATIN SMALL LETTER C WITH CIRCUMFLEX
U+010A	Ċ	c4 8a	LATIN CAPITAL LETTER C WITH DOT ABOVE
U+010B	ċ	c4 8b	LATIN SMALL LETTER C WITH DOT ABOVE
U+010C	Č	c4 8c	LATIN CAPITAL LETTER C WITH CARON
U+010D	č	c4 8d	LATIN SMALL LETTER C WITH CARON
U+010E	Ď	c4 8e	LATIN CAPITAL LETTER D WITH CARON
U+010F	ď	c4 8f	LATIN SMALL LETTER D WITH CARON
U+0110	Đ	c4 90	LATIN CAPITAL LETTER D WITH STROKE
U+0111	đ	c4 91	LATIN SMALL LETTER D WITH STROKE
U+0112	Ē	c4 92	LATIN CAPITAL LETTER E WITH MACRON
U+0113	ē	c4 93	LATIN SMALL LETTER E WITH MACRON
U+0114	Ĕ	c4 94	LATIN CAPITAL LETTER E WITH BREVE
U+0115	ĕ	c4 95	LATIN SMALL LETTER E WITH BREVE
U+0116	Ė	c4 96	LATIN CAPITAL LETTER E WITH DOT ABOVE
U+0117	ė	c4 97	LATIN SMALL LETTER E WITH DOT ABOVE
U+0118	Ę	c4 98	LATIN CAPITAL LETTER E WITH OGONEK
U+0119	ę	c4 99	LATIN SMALL LETTER E WITH OGONEK
U+011A	Ě	c4 9a	LATIN CAPITAL LETTER E WITH CARON
U+011B	ě	c4 9b	LATIN SMALL LETTER E WITH CARON
U+011C	Ĝ	c4 9c	LATIN CAPITAL LETTER G WITH CIRCUMFLEX
U+011D	ĝ	c4 9d	LATIN SMALL LETTER G WITH CIRCUMFLEX
U+011E	Ğ	c4 9e	LATIN CAPITAL LETTER G WITH BREVE
U+011F	ğ	c4 9f	LATIN SMALL LETTER G WITH BREVE
U+0120	Ġ	c4 a0	LATIN CAPITAL LETTER G WITH DOT ABOVE
U+0121	ġ	c4 a1	LATIN SMALL LETTER G WITH DOT ABOVE
U+0122	Ģ	c4 a2	LATIN CAPITAL LETTER G WITH CEDILLA

Unicode code pos.	Character	UTF-8 (hex.)	Name
U+0123	ģ	c4 a3	LATIN SMALL LETTER G WITH CEDILLA
U+0124	Ĥ	c4 a4	LATIN CAPITAL LETTER H WITH CIRCUMFLEX
U+0125	ĥ	c4 a5	LATIN SMALL LETTER H WITH CIRCUMFLEX
U+0126	Ħ	c4 a6	LATIN CAPITAL LETTER H WITH STROKE
U+0127	ħ	c4 a7	LATIN SMALL LETTER H WITH STROKE
U+0128	Ĩ	c4 a8	LATIN CAPITAL LETTER I WITH TILDE
U+0129	ĩ	c4 a9	LATIN SMALL LETTER I WITH TILDE
U+012A	Ī	c4 aa	LATIN CAPITAL LETTER I WITH MACRON
U+012B	ī	c4 ab	LATIN SMALL LETTER I WITH MACRON
U+012C	Ĭ	c4 ac	LATIN CAPITAL LETTER I WITH BREVE
U+012D	ĭ	c4 ad	LATIN SMALL LETTER I WITH BREVE
U+012E	Į	c4 ae	LATIN CAPITAL LETTER I WITH OGONEK
U+012F	į	c4 af	LATIN SMALL LETTER I WITH OGONEK
U+0130	İ	c4 b0	LATIN CAPITAL LETTER I WITH DOT ABOVE
U+0131	ı	c4 b1	LATIN SMALL LETTER DOTLESS I
U+0132	IJ	c4 b2	LATIN CAPITAL LIGATURE IJ
U+0133	ij	c4 b3	LATIN SMALL LIGATURE IJ
U+0134	Ĵ	c4 b4	LATIN CAPITAL LETTER J WITH CIRCUMFLEX
U+0135	ĵ	c4 b5	LATIN SMALL LETTER J WITH CIRCUMFLEX
U+0136	Ķ	c4 b6	LATIN CAPITAL LETTER K WITH CEDILLA
U+0137	ķ	c4 b7	LATIN SMALL LETTER K WITH CEDILLA
U+0138	ĸ	c4 b8	LATIN SMALL LETTER KRA
U+0139	Ĺ	c4 b9	LATIN CAPITAL LETTER L WITH ACUTE
U+013A	ĺ	c4 ba	LATIN SMALL LETTER L WITH ACUTE
U+013B	Ļ	c4 bb	LATIN CAPITAL LETTER L WITH CEDILLA
U+013C	ļ	c4 bc	LATIN SMALL LETTER L WITH CEDILLA
U+013D	Ľ	c4 bd	LATIN CAPITAL LETTER L WITH CARON
U+013E	ľ	c4 be	LATIN SMALL LETTER L WITH CARON
U+013F	Ŀ	c4 bf	LATIN CAPITAL LETTER L WITH MIDDLE DOT
U+0140	ŀ	c5 80	LATIN SMALL LETTER L WITH MIDDLE DOT
U+0141	Ł	c5 81	LATIN CAPITAL LETTER L WITH STROKE
U+0142	ł	c5 82	LATIN SMALL LETTER L WITH STROKE
U+0143	Ń	c5 83	LATIN CAPITAL LETTER N WITH ACUTE
U+0144	ń	c5 84	LATIN SMALL LETTER N WITH ACUTE
U+0145	Ņ	c5 85	LATIN CAPITAL LETTER N WITH CEDILLA
U+0146	ņ	c5 86	LATIN SMALL LETTER N WITH CEDILLA

Unicode code pos.	Character	UTF-8 (hex.)	Name
U+0147	Ň	c5 87	LATIN CAPITAL LETTER N WITH CARON
U+0148	ň	c5 88	LATIN SMALL LETTER N WITH CARON
U+0149	ʼn	c5 89	LATIN SMALL LETTER N PRECEDED BY APOSTROPHE
U+014A	Ŋ	c5 8a	LATIN CAPITAL LETTER ENG
U+014B	ŋ	c5 8b	LATIN SMALL LETTER ENG
U+014C	Ō	c5 8c	LATIN CAPITAL LETTER O WITH MACRON
U+014D	ō	c5 8d	LATIN SMALL LETTER O WITH MACRON
U+014E	Ŏ	c5 8e	LATIN CAPITAL LETTER O WITH BREVE
U+014F	ŏ	c5 8f	LATIN SMALL LETTER O WITH BREVE
U+0150	Ő	c5 90	LATIN CAPITAL LETTER O WITH DOUBLE ACUTE
U+0151	ő	c5 91	LATIN SMALL LETTER O WITH DOUBLE ACUTE
U+0152	Œ	c5 92	LATIN CAPITAL LIGATURE OE
U+0153	œ	c5 93	LATIN SMALL LIGATURE OE
U+0154	Ŕ	c5 94	LATIN CAPITAL LETTER R WITH ACUTE
U+0155	ŕ	c5 95	LATIN SMALL LETTER R WITH ACUTE
U+0156	Ŗ	c5 96	LATIN CAPITAL LETTER R WITH CEDILLA
U+0157	ŗ	c5 97	LATIN SMALL LETTER R WITH CEDILLA
U+0158	Ř	c5 98	LATIN CAPITAL LETTER R WITH CARON
U+0159	ř	c5 99	LATIN SMALL LETTER R WITH CARON
U+015A	Ś	c5 9a	LATIN CAPITAL LETTER S WITH ACUTE
U+015B	ś	c5 9b	LATIN SMALL LETTER S WITH ACUTE
U+015C	Ŝ	c5 9c	LATIN CAPITAL LETTER S WITH CIRCUMFLEX
U+015D	ŝ	c5 9d	LATIN SMALL LETTER S WITH CIRCUMFLEX
U+015E	Ş	c5 9e	LATIN CAPITAL LETTER S WITH CEDILLA
U+015F	ş	c5 9f	LATIN SMALL LETTER S WITH CEDILLA
U+0160	Š	c5 a0	LATIN CAPITAL LETTER S WITH CARON
U+0161	š	c5 a1	LATIN SMALL LETTER S WITH CARON
U+0162	Ţ	c5 a2	LATIN CAPITAL LETTER T WITH CEDILLA
U+0163	ţ	c5 a3	LATIN SMALL LETTER T WITH CEDILLA
U+0164	Ť	c5 a4	LATIN CAPITAL LETTER T WITH CARON
U+0165	ť	c5 a5	LATIN SMALL LETTER T WITH CARON
U+0166	Ŧ	c5 a6	LATIN CAPITAL LETTER T WITH STROKE
U+0167	ŧ	c5 a7	LATIN SMALL LETTER T WITH STROKE
U+0168	Ũ	c5 a8	LATIN CAPITAL LETTER U WITH TILDE
U+0169	ũ	c5 a9	LATIN SMALL LETTER U WITH TILDE
U+016A	Ū	c5 aa	LATIN CAPITAL LETTER U WITH MACRON

Unicode code pos.	Character	UTF-8 (hex.)	Name
U+016B	ū	c5 ab	LATIN SMALL LETTER U WITH MACRON
U+016C	Ŭ	c5 ac	LATIN CAPITAL LETTER U WITH BREVE
U+016D	ŭ	c5 ad	LATIN SMALL LETTER U WITH BREVE
U+016E	Ů	c5 ae	LATIN CAPITAL LETTER U WITH RING ABOVE
U+016F	ů	c5 af	LATIN SMALL LETTER U WITH RING ABOVE
U+0170	Ű	c5 b0	LATIN CAPITAL LETTER U WITH DOUBLE ACUTE
U+0171	ű	c5 b1	LATIN SMALL LETTER U WITH DOUBLE ACUTE
U+0172	Ų	c5 b2	LATIN CAPITAL LETTER U WITH OGONEK
U+0173	ų	c5 b3	LATIN SMALL LETTER U WITH OGONEK
U+0174	Ŵ	c5 b4	LATIN CAPITAL LETTER W WITH CIRCUMFLEX
U+0175	ŵ	c5 b5	LATIN SMALL LETTER W WITH CIRCUMFLEX
U+0176	Ŷ	c5 b6	LATIN CAPITAL LETTER Y WITH CIRCUMFLEX
U+0177	ŷ	c5 b7	LATIN SMALL LETTER Y WITH CIRCUMFLEX
U+0178	Ÿ	c5 b8	LATIN CAPITAL LETTER Y WITH DIAERESIS
U+0179	Ź	c5 b9	LATIN CAPITAL LETTER Z WITH ACUTE
U+017A	ź	c5 ba	LATIN SMALL LETTER Z WITH ACUTE
U+017B	Ż	c5 bb	LATIN CAPITAL LETTER Z WITH DOT ABOVE
U+017C	ż	c5 bc	LATIN SMALL LETTER Z WITH DOT ABOVE
U+017D	Ž	c5 bd	LATIN CAPITAL LETTER Z WITH CARON
U+017E	ž	c5 be	LATIN SMALL LETTER Z WITH CARON
U+017F	ſ	c5 bf	LATIN SMALL LETTER LONG S
U+0180	ƀ	c6 80	LATIN SMALL LETTER B WITH STROKE
U+0181	Ɓ	c6 81	LATIN CAPITAL LETTER B WITH HOOK
U+0182	Ƃ	c6 82	LATIN CAPITAL LETTER B WITH TOPBAR
U+0183	ƃ	c6 83	LATIN SMALL LETTER B WITH TOPBAR
U+0184	Ƅ	c6 84	LATIN CAPITAL LETTER TONE SIX
U+0185	ƅ	c6 85	LATIN SMALL LETTER TONE SIX
U+0186	Ɔ	c6 86	LATIN CAPITAL LETTER OPEN O
U+0187	Ƈ	c6 87	LATIN CAPITAL LETTER C WITH HOOK
U+0188	ƈ	c6 88	LATIN SMALL LETTER C WITH HOOK
U+0189	Ɖ	c6 89	LATIN CAPITAL LETTER AFRICAN D
U+018A	Ɗ	c6 8a	LATIN CAPITAL LETTER D WITH HOOK
U+018B	Ƌ	c6 8b	LATIN CAPITAL LETTER D WITH TOPBAR
U+018C	ƌ	c6 8c	LATIN SMALL LETTER D WITH TOPBAR
U+018D	ƍ	c6 8d	LATIN SMALL LETTER TURNED DELTA
U+018E	Ǝ	c6 8e	LATIN CAPITAL LETTER REVERSED E

Unicode code pos.	Character	UTF-8 (hex.)	Name
U+018F	Ə	c6 8f	LATIN CAPITAL LETTER SCHWA
U+0190	Ɛ	c6 90	LATIN CAPITAL LETTER OPEN E
U+0191	Ƒ	c6 91	LATIN CAPITAL LETTER F WITH HOOK
U+0192	ƒ	c6 92	LATIN SMALL LETTER F WITH HOOK
U+0193	Ɠ	c6 93	LATIN CAPITAL LETTER G WITH HOOK
U+0194	Ɣ	c6 94	LATIN CAPITAL LETTER GAMMA
U+0195	ƕ	c6 95	LATIN SMALL LETTER HV
U+0196	Ɩ	c6 96	LATIN CAPITAL LETTER IOTA
U+0197	Ɨ	c6 97	LATIN CAPITAL LETTER I WITH STROKE
U+0198	Ƙ	c6 98	LATIN CAPITAL LETTER K WITH HOOK
U+0199	ƙ	c6 99	LATIN SMALL LETTER K WITH HOOK
U+019A	ƚ	c6 9a	LATIN SMALL LETTER L WITH BAR
U+019B	ƛ	c6 9b	LATIN SMALL LETTER LAMBDA WITH STROKE
U+019C	Ɯ	c6 9c	LATIN CAPITAL LETTER TURNED M
U+019D	Ɲ	c6 9d	LATIN CAPITAL LETTER N WITH LEFT HOOK
U+019E	ƞ	c6 9e	LATIN SMALL LETTER N WITH LONG RIGHT LEG
U+019F	Ɵ	c6 9f	LATIN CAPITAL LETTER O WITH MIDDLE TILDE
U+01A0	Ơ	c6 a0	LATIN CAPITAL LETTER O WITH HORN
U+01A1	ơ	c6 a1	LATIN SMALL LETTER O WITH HORN
U+01A2	Ƣ	c6 a2	LATIN CAPITAL LETTER OI
U+01A3	ƣ	c6 a3	LATIN SMALL LETTER OI
U+01A4	Ƥ	c6 a4	LATIN CAPITAL LETTER P WITH HOOK
U+01A5	ƥ	c6 a5	LATIN SMALL LETTER P WITH HOOK
U+01A6	Ʀ	c6 a6	LATIN LETTER YR
U+01A7	Ƨ	c6 a7	LATIN CAPITAL LETTER TONE TWO
U+01A8	ƨ	c6 a8	LATIN SMALL LETTER TONE TWO
U+01A9	Σ	c6 a9	LATIN CAPITAL LETTER ESH
U+01AA	ʃ	c6 aa	LATIN LETTER REVERSED ESH LOOP
U+01AB	ƫ	c6 ab	LATIN SMALL LETTER T WITH PALATAL HOOK
U+01AC	Ƭ	c6 ac	LATIN CAPITAL LETTER T WITH HOOK
U+01AD	ƭ	c6 ad	LATIN SMALL LETTER T WITH HOOK
U+01AE	Ʈ	c6 ae	LATIN CAPITAL LETTER T WITH RETROFLEX HOOK
U+01AF	Ư	c6 af	LATIN CAPITAL LETTER U WITH HORN
U+01B0	ư	c6 b0	LATIN SMALL LETTER U WITH HORN
U+01B1	Ʊ	c6 b1	LATIN CAPITAL LETTER UPSILON
U+01B2	Ʋ	c6 b2	LATIN CAPITAL LETTER V WITH HOOK

Unicode code pos.	Character	UTF-8 (hex.)	Name
U+01B3	Ƴ	c6 b3	LATIN CAPITAL LETTER Y WITH HOOK
U+01B4	ƴ	c6 b4	LATIN SMALL LETTER Y WITH HOOK
U+01B5	Ƶ	c6 b5	LATIN CAPITAL LETTER Z WITH STROKE
U+01B6	ƶ	c6 b6	LATIN SMALL LETTER Z WITH STROKE
U+01B7	Ʒ	c6 b7	LATIN CAPITAL LETTER EZH
U+01B8	Ƹ	c6 b8	LATIN CAPITAL LETTER EZH REVERSED
U+01B9	ƹ	c6 b9	LATIN SMALL LETTER EZH REVERSED
U+01BA	ƺ	c6 ba	LATIN SMALL LETTER EZH WITH TAIL
U+01BB	ƻ	c6 bb	LATIN LETTER TWO WITH STROKE
U+01BC	Ƽ	c6 bc	LATIN CAPITAL LETTER TONE FIVE
U+01BD	ƽ	c6 bd	LATIN SMALL LETTER TONE FIVE
U+01BE	ƾ	c6 be	LATIN LETTER INVERTED GLOTTAL STOP WITH STROKE
U+01BF	ƿ	c6 bf	LATIN LETTER WYNN
U+01C0	ǀ	c7 80	LATIN LETTER DENTAL CLICK
U+01C1	ǁ	c7 81	LATIN LETTER LATERAL CLICK
U+01C2	ǂ	c7 82	LATIN LETTER ALVEOLAR CLICK
U+01C3	!	c7 83	LATIN LETTER RETROFLEX CLICK
U+01C4	DŽ	c7 84	LATIN CAPITAL LETTER DZ WITH CARON
U+01C5	Dž	c7 85	LATIN CAPITAL LETTER D WITH SMALL LETTER Z WITH CARON
U+01C6	dž	c7 86	LATIN SMALL LETTER DZ WITH CARON
U+01C7	LJ	c7 87	LATIN CAPITAL LETTER LJ
U+01C8	Lj	c7 88	LATIN CAPITAL LETTER L WITH SMALL LETTER J
U+01C9	lj	c7 89	LATIN SMALL LETTER LJ
U+01CA	NJ	c7 8a	LATIN CAPITAL LETTER NJ
U+01CB	Nj	c7 8b	LATIN CAPITAL LETTER N WITH SMALL LETTER J
U+01CC	nj	c7 8c	LATIN SMALL LETTER NJ
U+01CD	Ǎ	c7 8d	LATIN CAPITAL LETTER A WITH CARON
U+01CE	ǎ	c7 8e	LATIN SMALL LETTER A WITH CARON
U+01CF	Ǐ	c7 8f	LATIN CAPITAL LETTER I WITH CARON
U+01D0	ǐ	c7 90	LATIN SMALL LETTER I WITH CARON
U+01D1	Ǒ	c7 91	LATIN CAPITAL LETTER O WITH CARON
U+01D2	ǒ	c7 92	LATIN SMALL LETTER O WITH CARON
U+01D3	Ǔ	c7 93	LATIN CAPITAL LETTER U WITH CARON
U+01D4	ǔ	c7 94	LATIN SMALL LETTER U WITH CARON
U+01D5	Ǖ	c7 95	LATIN CAPITAL LETTER U WITH DIAERESIS AND MACRON
U+01D6	ǖ	c7 96	LATIN SMALL LETTER U WITH DIAERESIS AND MACRON

Unicode code pos.	Character	UTF-8 (hex.)	Name
U+01D7	Ǘ	c7 97	LATIN CAPITAL LETTER U WITH DIAERESIS AND ACUTE
U+01D8	ǘ	c7 98	LATIN SMALL LETTER U WITH DIAERESIS AND ACUTE
U+01D9	Ǚ	c7 99	LATIN CAPITAL LETTER U WITH DIAERESIS AND CARON
U+01DA	ǚ	c7 9a	LATIN SMALL LETTER U WITH DIAERESIS AND CARON
U+01DB	Ǜ	c7 9b	LATIN CAPITAL LETTER U WITH DIAERESIS AND GRAVE
U+01DC	ǜ	c7 9c	LATIN SMALL LETTER U WITH DIAERESIS AND GRAVE
U+01DD	ǝ	c7 9d	LATIN SMALL LETTER TURNED E
U+01DE	Ǎ	c7 9e	LATIN CAPITAL LETTER A WITH DIAERESIS AND MACRON
U+01DF	ǎ	c7 9f	LATIN SMALL LETTER A WITH DIAERESIS AND MACRON
U+01E0	Ǎ	c7 a0	LATIN CAPITAL LETTER A WITH DOT ABOVE AND MACRON
U+01E1	ǎ	c7 a1	LATIN SMALL LETTER A WITH DOT ABOVE AND MACRON
U+01E2	Ǽ	c7 a2	LATIN CAPITAL LETTER AE WITH MACRON
U+01E3	ǽ	c7 a3	LATIN SMALL LETTER AE WITH MACRON
U+01E4	Ꞡ	c7 a4	LATIN CAPITAL LETTER G WITH STROKE
U+01E5	ꞡ	c7 a5	LATIN SMALL LETTER G WITH STROKE
U+01E6	Ǧ	c7 a6	LATIN CAPITAL LETTER G WITH CARON
U+01E7	ǧ	c7 a7	LATIN SMALL LETTER G WITH CARON
U+01E8	Ǩ	c7 a8	LATIN CAPITAL LETTER K WITH CARON
U+01E9	ǩ	c7 a9	LATIN SMALL LETTER K WITH CARON
U+01EA	Ǫ	c7 aa	LATIN CAPITAL LETTER O WITH OGONEK
U+01EB	ǫ	c7 ab	LATIN SMALL LETTER O WITH OGONEK
U+01EC	Ǫ	c7 ac	LATIN CAPITAL LETTER O WITH OGONEK AND MACRON
U+01ED	ǫ	c7 ad	LATIN SMALL LETTER O WITH OGONEK AND MACRON
U+01EE	Ǯ	c7 ae	LATIN CAPITAL LETTER EZH WITH CARON
U+01EF	ǯ	c7 af	LATIN SMALL LETTER EZH WITH CARON
U+01F0	ǰ	c7 b0	LATIN SMALL LETTER J WITH CARON
U+01F1	DZ	c7 b1	LATIN CAPITAL LETTER DZ
U+01F2	Dz	c7 b2	LATIN CAPITAL LETTER D WITH SMALL LETTER Z
U+01F3	dz	c7 b3	LATIN SMALL LETTER DZ
U+01F4	Ǵ	c7 b4	LATIN CAPITAL LETTER G WITH ACUTE
U+01F5	ǵ	c7 b5	LATIN SMALL LETTER G WITH ACUTE
U+01F6	Ƕ	c7 b6	LATIN CAPITAL LETTER HWAIR
U+01F7	Ƿ	c7 b7	LATIN CAPITAL LETTER WYNN
U+01F8	Ǹ	c7 b8	LATIN CAPITAL LETTER N WITH GRAVE
U+01F9	ǹ	c7 b9	LATIN SMALL LETTER N WITH GRAVE
U+01FA	Ǻ	c7 ba	LATIN CAPITAL LETTER A WITH RING ABOVE AND ACUTE

Unicode code pos.	Character	UTF-8 (hex.)	Name
U+01FB	ǻ	c7 bb	LATIN SMALL LETTER A WITH RING ABOVE AND ACUTE
U+01FC	Ǽ	c7 bc	LATIN CAPITAL LETTER AE WITH ACUTE
U+01FD	ǽ	c7 bd	LATIN SMALL LETTER AE WITH ACUTE
U+01FE	Ǿ	c7 be	LATIN CAPITAL LETTER O WITH STROKE AND ACUTE
U+01FF	ǿ	c7 bf	LATIN SMALL LETTER O WITH STROKE AND ACUTE

4.4 U0100 - U017F Latin Extended-A

Unicode code pos.	*Character*	*UTF-8 (hex.)*	*Name*
U+0400	Ѐ	d0 80	CYRILLIC CAPITAL LETTER IE WITH GRAVE
U+0401	Ё	d0 81	CYRILLIC CAPITAL LETTER IO
U+0402	Ђ	d0 82	CYRILLIC CAPITAL LETTER DJE
U+0403	Ѓ	d0 83	CYRILLIC CAPITAL LETTER GJE
U+0404	Є	d0 84	CYRILLIC CAPITAL LETTER UKRAINIAN IE
U+0405	S	d0 85	CYRILLIC CAPITAL LETTER DZE
U+0406	I	d0 86	CYRILLIC CAPITAL LETTER BYELORUSSIAN-UKRAINIAN I
U+0407	Ї	d0 87	CYRILLIC CAPITAL LETTER YI
U+0408	J	d0 88	CYRILLIC CAPITAL LETTER JE
U+0409	Љ	d0 89	CYRILLIC CAPITAL LETTER LJE
U+040A	Ѣ	d0 8a	CYRILLIC CAPITAL LETTER NJE
U+040B	Ћ	d0 8b	CYRILLIC CAPITAL LETTER TSHE
U+040C	Ѓ	d0 8c	CYRILLIC CAPITAL LETTER KJE
U+040D	Ѝ	d0 8d	CYRILLIC CAPITAL LETTER I WITH GRAVE
U+040E	Ў	d0 8e	CYRILLIC CAPITAL LETTER SHORT U
U+040F	Ц	d0 8f	CYRILLIC CAPITAL LETTER DZHE
U+0410	А	d0 90	CYRILLIC CAPITAL LETTER A
U+0411	Б	d0 91	CYRILLIC CAPITAL LETTER BE
U+0412	В	d0 92	CYRILLIC CAPITAL LETTER VE
U+0413	Г	d0 93	CYRILLIC CAPITAL LETTER GHE
U+0414	Д	d0 94	CYRILLIC CAPITAL LETTER DE
U+0415	Е	d0 95	CYRILLIC CAPITAL LETTER IE
U+0416	Ж	d0 96	CYRILLIC CAPITAL LETTER ZHE
U+0417	З	d0 97	CYRILLIC CAPITAL LETTER ZE
U+0418	И	d0 98	CYRILLIC CAPITAL LETTER I
U+0419	Й	d0 99	CYRILLIC CAPITAL LETTER SHORT I
U+041A	К	d0 9a	CYRILLIC CAPITAL LETTER KA
U+041B	Л	d0 9b	CYRILLIC CAPITAL LETTER EL
U+041C	М	d0 9c	CYRILLIC CAPITAL LETTER EM
U+041D	Н	d0 9d	CYRILLIC CAPITAL LETTER EN
U+041E	О	d0 9e	CYRILLIC CAPITAL LETTER O
U+041F	П	d0 9f	CYRILLIC CAPITAL LETTER PE
U+0420	Р	d0 a0	CYRILLIC CAPITAL LETTER ER

Unicode code pos.	***Character***	***UTF-8 (hex.)***	***Name***
U+0421	С	d0 a1	CYRILLIC CAPITAL LETTER ES
U+0422	Т	d0 a2	CYRILLIC CAPITAL LETTER TE
U+0423	У	d0 a3	CYRILLIC CAPITAL LETTER U
U+0424	Ф	d0 a4	CYRILLIC CAPITAL LETTER EF
U+0425	Х	d0 a5	CYRILLIC CAPITAL LETTER HA
U+0426	Ц	d0 a6	CYRILLIC CAPITAL LETTER TSE
U+0427	Ч	d0 a7	CYRILLIC CAPITAL LETTER CHE
U+0428	Ш	d0 a8	CYRILLIC CAPITAL LETTER SHA
U+0429	Щ	d0 a9	CYRILLIC CAPITAL LETTER SHCHA
U+042A	Ъ	d0 aa	CYRILLIC CAPITAL LETTER HARD SIGN
U+042B	Ы	d0 ab	CYRILLIC CAPITAL LETTER YERU
U+042C	Ь	d0 ac	CYRILLIC CAPITAL LETTER SOFT SIGN
U+042D	Э	d0 ad	CYRILLIC CAPITAL LETTER E
U+042E	Ю	d0 ae	CYRILLIC CAPITAL LETTER YU
U+042F	Я	d0 af	CYRILLIC CAPITAL LETTER YA
U+0430	а	d0 b0	CYRILLIC SMALL LETTER A
U+0431	б	d0 b1	CYRILLIC SMALL LETTER BE
U+0432	в	d0 b2	CYRILLIC SMALL LETTER VE
U+0433	г	d0 b3	CYRILLIC SMALL LETTER GHE
U+0434	д	d0 b4	CYRILLIC SMALL LETTER DE
U+0435	е	d0 b5	CYRILLIC SMALL LETTER IE
U+0436	ж	d0 b6	CYRILLIC SMALL LETTER ZHE
U+0437	з	d0 b7	CYRILLIC SMALL LETTER ZE
U+0438	и	d0 b8	CYRILLIC SMALL LETTER I
U+0439	й	d0 b9	CYRILLIC SMALL LETTER SHORT I
U+043A	к	d0 ba	CYRILLIC SMALL LETTER KA
U+043B	л	d0 bb	CYRILLIC SMALL LETTER EL
U+043C	м	d0 bc	CYRILLIC SMALL LETTER EM
U+043D	н	d0 bd	CYRILLIC SMALL LETTER EN
U+043E	о	d0 be	CYRILLIC SMALL LETTER O
U+043F	п	d0 bf	CYRILLIC SMALL LETTER PE
U+0440	р	d1 80	CYRILLIC SMALL LETTER ER
U+0441	с	d1 81	CYRILLIC SMALL LETTER ES
U+0442	т	d1 82	CYRILLIC SMALL LETTER TE

Unicode code pos.	***Character***	***UTF-8 (hex.)***	***Name***
U+0443	у	d1 83	CYRILLIC SMALL LETTER U
U+0444	ф	d1 84	CYRILLIC SMALL LETTER EF
U+0445	х	d1 85	CYRILLIC SMALL LETTER HA
U+0446	ц	d1 86	CYRILLIC SMALL LETTER TSE
U+0447	ч	d1 87	CYRILLIC SMALL LETTER CHE
U+0448	ш	d1 88	CYRILLIC SMALL LETTER SHA
U+0449	щ	d1 89	CYRILLIC SMALL LETTER SHCHA
U+044A	ъ	d1 8a	CYRILLIC SMALL LETTER HARD SIGN
U+044B	ы	d1 8b	CYRILLIC SMALL LETTER YERU
U+044C	ь	d1 8c	CYRILLIC SMALL LETTER SOFT SIGN
U+044D	э	d1 8d	CYRILLIC SMALL LETTER E
U+044E	ю	d1 8e	CYRILLIC SMALL LETTER YU
U+044F	я	d1 8f	CYRILLIC SMALL LETTER YA
U+0450	ѐ	d1 90	CYRILLIC SMALL LETTER IE WITH GRAVE
U+0451	ё	d1 91	CYRILLIC SMALL LETTER IO
U+0452	ђ	d1 92	CYRILLIC SMALL LETTER DJE
U+0453	ѓ	d1 93	CYRILLIC SMALL LETTER GJE
U+0454	є	d1 94	CYRILLIC SMALL LETTER UKRAINIAN IE
U+0455	ѕ	d1 95	CYRILLIC SMALL LETTER DZE
U+0456	і	d1 96	CYRILLIC SMALL LETTER BYELORUSSIAN-UKRAINIAN I
U+0457	ї	d1 97	CYRILLIC SMALL LETTER YI
U+0458	ј	d1 98	CYRILLIC SMALL LETTER JE
U+0459	љ	d1 99	CYRILLIC SMALL LETTER LJE
U+045A	њ	d1 9a	CYRILLIC SMALL LETTER NJE
U+045B	ћ	d1 9b	CYRILLIC SMALL LETTER TSHE
U+045C	ќ	d1 9c	CYRILLIC SMALL LETTER KJE
U+045D	ѝ	d1 9d	CYRILLIC SMALL LETTER I WITH GRAVE
U+045E	ў	d1 9e	CYRILLIC SMALL LETTER SHORT U
U+045F	џ	d1 9f	CYRILLIC SMALL LETTER DZHE
U+0460	Ѡ	d1 a0	CYRILLIC CAPITAL LETTER OMEGA
U+0461	ѡ	d1 a1	CYRILLIC SMALL LETTER OMEGA
U+0462	Ѣ	d1 a2	CYRILLIC CAPITAL LETTER YAT
U+0463	ѣ	d1 a3	CYRILLIC SMALL LETTER YAT
U+0464	Ѥ	d1 a4	CYRILLIC CAPITAL LETTER IOTIFIED E

Unicode code pos.	***Character***	***UTF-8 (hex.)***	***Name***
U+0465	ѥ	d1 a5	CYRILLIC SMALL LETTER IOTIFIED E
U+0466	Ѧ	d1 a6	CYRILLIC CAPITAL LETTER LITTLE YUS
U+0467	ѧ	d1 a7	CYRILLIC SMALL LETTER LITTLE YUS
U+0468	Ѩ	d1 a8	CYRILLIC CAPITAL LETTER IOTIFIED LITTLE YUS
U+0469	ѩ	d1 a9	CYRILLIC SMALL LETTER IOTIFIED LITTLE YUS
U+046A	Ѫ	d1 aa	CYRILLIC CAPITAL LETTER BIG YUS
U+046B	ѫ	d1 ab	CYRILLIC SMALL LETTER BIG YUS
U+046C	Ѭ	d1 ac	CYRILLIC CAPITAL LETTER IOTIFIED BIG YUS
U+046D	ѭ	d1 ad	CYRILLIC SMALL LETTER IOTIFIED BIG YUS
U+046E	Ѯ	d1 ae	CYRILLIC CAPITAL LETTER KSI
U+046F	ѯ	d1 af	CYRILLIC SMALL LETTER KSI
U+0470	Ѱ	d1 b0	CYRILLIC CAPITAL LETTER PSI
U+0471	ѱ	d1 b1	CYRILLIC SMALL LETTER PSI
U+0472	Ѳ	d1 b2	CYRILLIC CAPITAL LETTER FITA
U+0473	ѳ	d1 b3	CYRILLIC SMALL LETTER FITA
U+0474	Ѵ	d1 b4	CYRILLIC CAPITAL LETTER IZHITSA
U+0475	ѵ	d1 b5	CYRILLIC SMALL LETTER IZHITSA
U+0476	Ѷ	d1 b6	CYRILLIC CAPITAL LETTER IZHITSA WITH DOUBLE GRAVE ACCENT
U+0477	ѶѶ	d1 b7	CYRILLIC SMALL LETTER IZHITSA WITH DOUBLE GRAVE ACCENT
U+0478	Ѹ	d1 b8	CYRILLIC CAPITAL LETTER UK
U+0479	ѹ	d1 b9	CYRILLIC SMALL LETTER UK
U+047A	Ѻ	d1 ba	CYRILLIC CAPITAL LETTER ROUND OMEGA
U+047B	ѻ	d1 bb	CYRILLIC SMALL LETTER ROUND OMEGA
U+047C	Ѽ	d1 bc	CYRILLIC CAPITAL LETTER OMEGA WITH TITLO
U+047D	ѽ	d1 bd	CYRILLIC SMALL LETTER OMEGA WITH TITLO
U+047E	Ѿ	d1 be	CYRILLIC CAPITAL LETTER OT
U+047F	ѿ	d1 bf	CYRILLIC SMALL LETTER OT
U+0480	Ҁ	d2 80	CYRILLIC CAPITAL LETTER KOPPA
U+0481	ҁ	d2 81	CYRILLIC SMALL LETTER KOPPA
U+0482	҂	d2 82	CYRILLIC THOUSANDS SIGN
U+0483	҃	d2 83	COMBINING CYRILLIC TITLO

Unicode code pos.	***Character***	***UTF-8 (hex.)***	***Name***
U+0484	҄	d2 84	COMBINING CYRILLIC PALATALIZATION
U+0485	҅	d2 85	COMBINING CYRILLIC DASIA PNEUMATA
U+0486	҆	d2 86	COMBINING CYRILLIC PSILI PNEUMATA
U+0487	҇	d2 87	COMBINING CYRILLIC POKRYTIE
U+0488	҈	d2 88	COMBINING CYRILLIC HUNDRED THOUSANDS SIGN
U+0489	҉	d2 89	COMBINING CYRILLIC MILLIONS SIGN
U+048A	Ӈ	d2 8a	CYRILLIC CAPITAL LETTER SHORT I WITH TAIL
U+048B	ӈ	d2 8b	CYRILLIC SMALL LETTER SHORT I WITH TAIL
U+048C	Ҍ	d2 8c	CYRILLIC CAPITAL LETTER SEMISOFT SIGN
U+048D	ҍ	d2 8d	CYRILLIC SMALL LETTER SEMISOFT SIGN
U+048E	Ҏ	d2 8e	CYRILLIC CAPITAL LETTER ER WITH TICK
U+048F	ҏ	d2 8f	CYRILLIC SMALL LETTER ER WITH TICK
U+0490	Ґ	d2 90	CYRILLIC CAPITAL LETTER GHE WITH UPTURN
U+0491	ґ	d2 91	CYRILLIC SMALL LETTER GHE WITH UPTURN
U+0492	Ғ	d2 92	CYRILLIC CAPITAL LETTER GHE WITH STROKE
U+0493	ғ	d2 93	CYRILLIC SMALL LETTER GHE WITH STROKE
U+0494	Ҕ	d2 94	CYRILLIC CAPITAL LETTER GHE WITH MIDDLE HOOK
U+0495	ҕ	d2 95	CYRILLIC SMALL LETTER GHE WITH MIDDLE HOOK
U+0496	Җ	d2 96	CYRILLIC CAPITAL LETTER ZHE WITH DESCENDER
U+0497	җ	d2 97	CYRILLIC SMALL LETTER ZHE WITH DESCENDER
U+0498	Ҙ	d2 98	CYRILLIC CAPITAL LETTER ZE WITH DESCENDER
U+0499	ҙ	d2 99	CYRILLIC SMALL LETTER ZE WITH DESCENDER
U+049A	Қ	d2 9a	CYRILLIC CAPITAL LETTER KA WITH DESCENDER
U+049B	қ	d2 9b	CYRILLIC SMALL LETTER KA WITH DESCENDER
U+049C	Ҝ	d2 9c	CYRILLIC CAPITAL LETTER KA WITH VERTICAL STROKE
U+049D	ҝ	d2 9d	CYRILLIC SMALL LETTER KA WITH VERTICAL STROKE
U+049E	Ҟ	d2 9e	CYRILLIC CAPITAL LETTER KA WITH STROKE
U+049F	ҟ	d2 9f	CYRILLIC SMALL LETTER KA WITH STROKE
U+04A0	Ҡ	d2 a0	CYRILLIC CAPITAL LETTER BASHKIR KA
U+04A1	ҡ	d2 a1	CYRILLIC SMALL LETTER BASHKIR KA
U+04A2	Ң	d2 a2	CYRILLIC CAPITAL LETTER EN WITH DESCENDER
U+04A3	ң	d2 a3	CYRILLIC SMALL LETTER EN WITH DESCENDER
U+04A4	Ҥ	d2 a4	CYRILLIC CAPITAL LIGATURE EN GHE

Unicode code pos.	***Character***	***UTF-8 (hex.)***	***Name***
U+04A5	ҥ	d2 a5	CYRILLIC SMALL LIGATURE EN GHE
U+04A6	Ҧ	d2 a6	CYRILLIC CAPITAL LETTER PE WITH MIDDLE HOOK
U+04A7	ҧ	d2 a7	CYRILLIC SMALL LETTER PE WITH MIDDLE HOOK
U+04A8	Ҩ	d2 a8	CYRILLIC CAPITAL LETTER ABKHASIAN HA
U+04A9	ҩ	d2 a9	CYRILLIC SMALL LETTER ABKHASIAN HA
U+04AA	Ҫ	d2 aa	CYRILLIC CAPITAL LETTER ES WITH DESCENDER
U+04AB	ҫ	d2 ab	CYRILLIC SMALL LETTER ES WITH DESCENDER
U+04AC	Ҭ	d2 ac	CYRILLIC CAPITAL LETTER TE WITH DESCENDER
U+04AD	ҭ	d2 ad	CYRILLIC SMALL LETTER TE WITH DESCENDER
U+04AE	Ү	d2 ae	CYRILLIC CAPITAL LETTER STRAIGHT U
U+04AF	ү	d2 af	CYRILLIC SMALL LETTER STRAIGHT U
U+04B0	Ұ	d2 b0	CYRILLIC CAPITAL LETTER STRAIGHT U WITH STROKE
U+04B1	ұ	d2 b1	CYRILLIC SMALL LETTER STRAIGHT U WITH STROKE
U+04B2	Ҳ	d2 b2	CYRILLIC CAPITAL LETTER HA WITH DESCENDER
U+04B3	ҳ	d2 b3	CYRILLIC SMALL LETTER HA WITH DESCENDER
U+04B4	Ҵ	d2 b4	CYRILLIC CAPITAL LIGATURE TE TSE
U+04B5	ҵ	d2 b5	CYRILLIC SMALL LIGATURE TE TSE
U+04B6	Ҷ	d2 b6	CYRILLIC CAPITAL LETTER CHE WITH DESCENDER
U+04B7	ҷ	d2 b7	CYRILLIC SMALL LETTER CHE WITH DESCENDER
U+04B8	Ҹ	d2 b8	CYRILLIC CAPITAL LETTER CHE WITH VERTICAL STROKE
U+04B9	ҹ	d2 b9	CYRILLIC SMALL LETTER CHE WITH VERTICAL STROKE
U+04BA	Һ	d2 ba	CYRILLIC CAPITAL LETTER SHHA
U+04BB	ҳ	d2 bb	CYRILLIC SMALL LETTER SHHA
U+04BC	Ҽ	d2 bc	CYRILLIC CAPITAL LETTER ABKHASIAN CHE
U+04BD	ҽ	d2 bd	CYRILLIC SMALL LETTER ABKHASIAN CHE
U+04BE	Ҿ	d2 be	CYRILLIC CAPITAL LETTER ABKHASIAN CHE WITH DESCENDER
U+04BF	ҿ	d2 bf	CYRILLIC SMALL LETTER ABKHASIAN CHE WITH DESCENDER
U+04C0	Ӏ	d3 80	CYRILLIC LETTER PALOCHKA
U+04C1	Ӂ	d3 81	CYRILLIC CAPITAL LETTER ZHE WITH BREVE
U+04C2	ӂ	d3 82	CYRILLIC SMALL LETTER ZHE WITH BREVE
U+04C3	Ӄ	d3 83	CYRILLIC CAPITAL LETTER KA WITH HOOK
U+04C4	ӄ	d3 84	CYRILLIC SMALL LETTER KA WITH HOOK

Unicode code pos.	***Character***	***UTF-8 (hex.)***	***Name***
U+04C5	Ӆ	d3 85	CYRILLIC CAPITAL LETTER EL WITH TAIL
U+04C6	ӆ	d3 86	CYRILLIC SMALL LETTER EL WITH TAIL
U+04C7	Ӈ	d3 87	CYRILLIC CAPITAL LETTER EN WITH HOOK
U+04C8	ӈ	d3 88	CYRILLIC SMALL LETTER EN WITH HOOK
U+04C9	Ӊ	d3 89	CYRILLIC CAPITAL LETTER EN WITH TAIL
U+04CA	ӊ	d3 8a	CYRILLIC SMALL LETTER EN WITH TAIL
U+04CB	Ӌ	d3 8b	CYRILLIC CAPITAL LETTER KHAKASSIAN CHE
U+04CC	ӌ	d3 8c	CYRILLIC SMALL LETTER KHAKASSIAN CHE
U+04CD	Ӎ	d3 8d	CYRILLIC CAPITAL LETTER EM WITH TAIL
U+04CE	ӎ	d3 8e	CYRILLIC SMALL LETTER EM WITH TAIL
U+04CF	ӏ	d3 8f	CYRILLIC SMALL LETTER PALOCHKA
U+04D0	Ӑ	d3 90	CYRILLIC CAPITAL LETTER A WITH BREVE
U+04D1	ӑ	d3 91	CYRILLIC SMALL LETTER A WITH BREVE
U+04D2	Ӓ	d3 92	CYRILLIC CAPITAL LETTER A WITH DIAERESIS
U+04D3	ӓ	d3 93	CYRILLIC SMALL LETTER A WITH DIAERESIS
U+04D4	Ӕ	d3 94	CYRILLIC CAPITAL LIGATURE A IE
U+04D5	ӕ	d3 95	CYRILLIC SMALL LIGATURE A IE
U+04D6	Ӗ	d3 96	CYRILLIC CAPITAL LETTER IE WITH BREVE
U+04D7	ӗ	d3 97	CYRILLIC SMALL LETTER IE WITH BREVE
U+04D8	Ә	d3 98	CYRILLIC CAPITAL LETTER SCHWA
U+04D9	ә	d3 99	CYRILLIC SMALL LETTER SCHWA
U+04DA	Ӛ	d3 9a	CYRILLIC CAPITAL LETTER SCHWA WITH DIAERESIS
U+04DB	ӛ	d3 9b	CYRILLIC SMALL LETTER SCHWA WITH DIAERESIS
U+04DC	Ӝ	d3 9c	CYRILLIC CAPITAL LETTER ZHE WITH DIAERESIS
U+04DD	ӜЖ	d3 9d	CYRILLIC SMALL LETTER ZHE WITH DIAERESIS
U+04DE	Ӟ	d3 9e	CYRILLIC CAPITAL LETTER ZE WITH DIAERESIS
U+04DF	ӟ	d3 9f	CYRILLIC SMALL LETTER ZE WITH DIAERESIS
U+04E0	Ӡ	d3 a0	CYRILLIC CAPITAL LETTER ABKHASIAN DZE
U+04E1	ӡ	d3 a1	CYRILLIC SMALL LETTER ABKHASIAN DZE
U+04E2	Ӣ	d3 a2	CYRILLIC CAPITAL LETTER I WITH MACRON
U+04E3	ӣ	d3 a3	CYRILLIC SMALL LETTER I WITH MACRON
U+04E4	Ӥ	d3 a4	CYRILLIC CAPITAL LETTER I WITH DIAERESIS

Unicode code pos.	***Character***	***UTF-8 (hex.)***	***Name***
U+04E5	й	d3 a5	CYRILLIC SMALL LETTER I WITH DIAERESIS
U+04E6	Ö	d3 a6	CYRILLIC CAPITAL LETTER O WITH DIAERESIS
U+04E7	ö	d3 a7	CYRILLIC SMALL LETTER O WITH DIAERESIS
U+04E8	Ѳ	d3 a8	CYRILLIC CAPITAL LETTER BARRED O
U+04E9	ѳ	d3 a9	CYRILLIC SMALL LETTER BARRED O
U+04EA	Ö	d3 aa	CYRILLIC CAPITAL LETTER BARRED O WITH DIAERESIS
U+04EB	ö	d3 ab	CYRILLIC SMALL LETTER BARRED O WITH DIAERESIS
U+04EC	Э	d3 ac	CYRILLIC CAPITAL LETTER E WITH DIAERESIS
U+04ED	э	d3 ad	CYRILLIC SMALL LETTER E WITH DIAERESIS
U+04EE	Ū	d3 ae	CYRILLIC CAPITAL LETTER U WITH MACRON
U+04EF	ū	d3 af	CYRILLIC SMALL LETTER U WITH MACRON
U+04F0	Ü	d3 b0	CYRILLIC CAPITAL LETTER U WITH DIAERESIS
U+04F1	ü	d3 b1	CYRILLIC SMALL LETTER U WITH DIAERESIS
U+04F2	Ű	d3 b2	CYRILLIC CAPITAL LETTER U WITH DOUBLE ACUTE
U+04F3	ű	d3 b3	CYRILLIC SMALL LETTER U WITH DOUBLE ACUTE
U+04F4	Ч	d3 b4	CYRILLIC CAPITAL LETTER CHE WITH DIAERESIS
U+04F5	ч	d3 b5	CYRILLIC SMALL LETTER CHE WITH DIAERESIS
U+04F6	Ґ	d3 b6	CYRILLIC CAPITAL LETTER GHE WITH DESCENDER
U+04F7	ґ	d3 b7	CYRILLIC SMALL LETTER GHE WITH DESCENDER
U+04F8	Ы	d3 b8	CYRILLIC CAPITAL LETTER YERU WITH DIAERESIS
U+04F9	ы	d3 b9	CYRILLIC SMALL LETTER YERU WITH DIAERESIS
U+04FA	Ґ	d3 ba	CYRILLIC CAPITAL LETTER GHE WITH STROKE AND HOOK
U+04FB	ґ	d3 bb	CYRILLIC SMALL LETTER GHE WITH STROKE AND HOOK
U+04FC	Ҳ	d3 bc	CYRILLIC CAPITAL LETTER HA WITH HOOK
U+04FD	ҳ	d3 bd	CYRILLIC SMALL LETTER HA WITH HOOK
U+04FE	Ҳ	d3 be	CYRILLIC CAPITAL LETTER HA WITH STROKE
U+04FF	ҳ	d3 bf	CYRILLIC SMALL LETTER HA WITH STROKE