

ISO
INTERNATIONAL ORGANIZATION FOR STANDARDIZATION
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ISO/IEC JTC1/SC2/WG2
Universal Multiple-Octet Coded Character Set (UCS)

ISO/IEC JTC1/SC2/WG2 N 1782

Date: 1998-05-06

IRG N575

Clause X Ideographic Description Sequence (IDS)
(This proposed clause may also be a new annex, if decided so)

Characters from xxxx - yyyy are Ideographic Description Characters (IDC).

IDC is an independent graphic character, which is used along with a sequence of description components to forms an Ideographic Description Sequence (IDS).

A Description Component (DC) is a CC-Data-Element, which in this context refers to either one of the following:

- A coded ideograph
- A coded radical
- A coded ideographic component
- An IDS

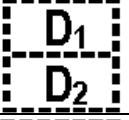
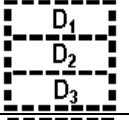
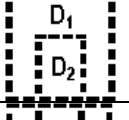
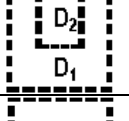
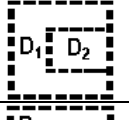
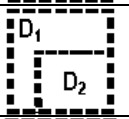
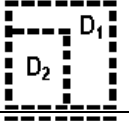
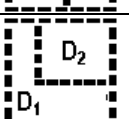
An IDS is used to describe an un-encoded unified ideograph in the abstract form. As a CC-Data-Element, an IDS shall not be interpreted as a composed character and shall not have any rendering implication.

An IDS is composed of an IDC followed by a fixed number of DCs.

Each IDC has 3 properties as summarized in Table-XXX

1. The number of DCs used in the IDS with the IDC applied
2. The IDS definition of this IDC's proper usage
3. The relative positions of the DCs for the described un-encoded ideograph in its abstract form.

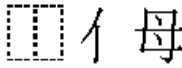
Table-xxx

Symbol	Name	# of DCs	IDS definition	Relative positions of DCs
	Ideographic Description Character Left To Right (IDC-LTR)	2	IDC-LTR D1 D2	
	Ideographic Description Character Above To Below (IDC-ATB)	2	IDC-ATB D1 D2	
	Ideographic Description Character Left To Middle and Right (IDC-LMR)	3	IDC-LMR D1 D2 D3	
	Ideographic Description Character Above To Middle and Below (IDC-AMB)	3	IDC-AMB D1 D2 D3	
	Ideographic Description Character Overall Around (IDC-OVA)	2	IDC-OVA D1 D2	
	Ideographic Description Character Down To Encompass (IDC-DTE)	2	IDC-DTE C1 C2	
	Ideographic Description Character Up To Encompass (IDC-UTE)	2	IDC-UTE D1 D2	
	Ideographic Description Character Right To Encompass (IDC-RTE)	2	IDC-RTE D1 D2	
	Ideographic Description Character Right Down Encompass (IDC-RDE)	2	IDC-RDE D1 D2	
	Ideographic Description Character Left Down Encompass (IDC-LDE)	2	IDC-LDE D1 D2	
	Ideographic Description Character Right Up Encompass (IDC-RUE)	2	IDC-RUE D1 D2	
	Ideographic Description Character Embedment (IDC-EMB)	2	IDC-EMB D1 D2	

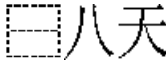
*Note: D1 and D2 are overlapping with each other. This graphic symbol does not imply at all that D1 is on the top left corner and D2 is on the bottom right corner.

Ideographic Description Character Left To Right (IDC-LTR):

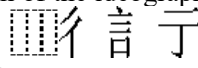
IDC-LTR is used in IDS in the form of IDC-LTR followed by one DC, D1, followed by another DC, D2. This IDS sequence of IDC-LTR D1 D2 describes the abstract form of the ideograph with D1 on the left-hand side and D2 on the right-hand side.

 is an example of an IDS which represents the abstract form of .

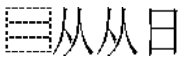
Ideographic Description Character Above To Below (IDC-ATB):

IDC-ATB is used in IDS in the form of IDC-ATB followed by one DC, D1, followed by another DC, D2. This IDS sequence of IDC-ATB D1 D2 describes the abstract form of the ideograph with D1 on top of D2.  is an example of an IDS which represents the abstract form of .

Ideographic Description Character Left To Middle and Right (IDC-LMR):

IDC-LMR is used in IDS in the form of IDC-LMR followed by one DC, D1, followed by another DC, D2, and followed by another DC, D3. This IDS sequence of IDC-LMR D1 D2 D3 describes the abstract form of the ideograph with D1 on the left-hand side of D2, and D2 on the left-hand of D3.  is an example of an IDS which represents the abstract form of .

Ideographic Description Character Above To Middle and Below (IDC-AMB):

IDC-AMB is used in IDS in the form of IDC-AMB followed by one DC, D1, followed by another DC, D2, and followed by another DC, D3. This IDS sequence of IDC-AMB D1 D2 D3 describes the abstract form of the ideograph with D1 on top of D2, and D2 on top of D3.  is an example of an IDS which represents the abstract form of .

Ideographic Description Character Overall around (IDC-OVA):

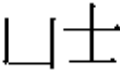
IDC-OVA is used in IDS in the form of IDC-OVA followed by one DC, D1, followed by another DC, D2. This IDS sequence of IDC-OVA D1 D2 describes the abstract form of the ideograph with D1 outside of D2.  is an example of an IDS which represents the abstract form of .

Ideographic Description Character Down To Encompass (IDC-DTE):

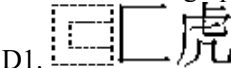
IDC-DTE is used in IDS in the form of IDC-DTE followed by one DC, D1, followed by another DC, D2. This IDS sequence of IDC-DTE D1 D2 describes the abstract

form of the ideograph with D1 on top of D2, and D2 is encompassed by D1.
 is an example of an IDS which represents the abstract form of .

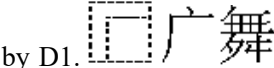
Ideographic Description Character Up To Encompass (IDC-UTE):

IDC-UTE is used in IDS in the form of IDC-UTE followed by one DC, D1, followed by another DC, D2. This IDS sequence of IDC-UTE D1 D2 describes the abstract form of the ideograph with D2 on top of D1, and D2 is encompassed by D1.
 is an example of an IDS which represents the abstract form of .

Ideographic Description Character Right To Encompass (IDC-RTE):

IDC-RTE is used in IDS in the form of IDC-RTE followed by one DC, D1, followed by another DC, D2. This IDS sequence of IDC-RTE D1 D2 describes the abstract form of the ideograph with D1 on the left-hand side of D2, and D2 is encompassed by D1.
 is an example of an IDS which represents the abstract form of .

Ideographic Description Character Right Down Encompass (IDC-RDE):

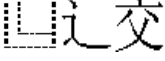
IDC-RDE is used in IDS in the form of IDC-RDE followed by one DC, D1, followed by another DC, D2. This IDS sequence of IDC-RDE D1 D2 describes the abstract form of the ideograph with D1 on top and left corner of D2, and D2 is encompassed by D1.
 is an example of an IDS which represents the abstract form of .

Ideographic Description Character Left Down Encompass (IDC-LDE):

IDC-LDE is used in IDS in the form of IDC-LDE followed by one DC, D1, followed by another DC, D2. This IDS sequence of IDC-LDE D1 D2 describes the abstract form of the ideograph with D1 on the right top corner of D2, and D2 is encompassed by D1.
 is an example of an IDS which represents the abstract form of .

Ideographic Description Character Right Up Encompass (IDC-RUE):

IDC-RUE is used in IDS in the form of IDC-RUE followed by one DC, D1, followed by another DC, D2. This IDS sequence of IDC-RUE D1 D2 describes the abstract form of the ideograph with D1 on left bottom corner of D2, and D2 is encompassed by

D1.  is an example of an IDS which represents the abstract from of .

Ideographic Description Character Embedment (IDC-EMB):

IDC-EMB is used in IDS in the form of IDC-EMB followed by one DC, D1, followed by another DC, D2. This IDS sequence of IDC-EMB D1 D2 describes the abstract form of the ideograph with D1 and D2 overlaying each other.  is an example of an IDS which represents the abstract from of .