

# ISO/IEC TR 11580:2007-03 (E)

## Information technology - Framework for describing user interface objects, actions and attributes

---

<b>Contents</b>		<b>Page</b>
Foreword .....		v
Introduction .....		vi
1	Scope .....	1
2	Terms and definitions .....	1
3	Modelling objects, actions, and attributes .....	3
4	Common properties of objects, actions, and attributes .....	5
4.1	Software identification of objects, actions, and attributes .....	5
4.1.1	Internal properties of objects, actions, and attributes .....	5
4.1.2	Internal properties of implemented objects, actions, and attributes .....	5
4.1.3	Standard internal identifiers .....	5
4.1.4	Standard of internal states of objects, actions, and attributes .....	5
4.1.5	Specification of internal identifiers .....	6
4.1.6	Implementation of internal identifier .....	6
4.2	Information properties of objects, actions, and attributes .....	6
4.2.1	Labels .....	6
4.2.2	Uniqueness of labels .....	6
4.2.3	Understandability of labels .....	6
4.2.4	Descriptions .....	6
4.2.5	States .....	7
4.2.6	Standard information properties of objects, actions, and attributes .....	7
4.2.7	Clear and unambiguous purpose .....	7
4.2.8	Standardized English version of labels, descriptions, and state information .....	7
4.2.9	Use of information properties of objects, actions, and attributes .....	7
4.2.10	Result of selection of a label .....	7
4.2.11	User control of labels .....	7
4.2.12	User control of descriptions .....	7
4.2.13	Standardized translations of labels and descriptions .....	8
4.2.14	Language of labels, descriptions, and state information .....	8
4.2.15	Developer based translations of labels and descriptions .....	8
4.2.16	Implementation of alternate languages .....	8
4.3	Representation properties of objects, actions, and attributes .....	8
4.3.1	Use of representation properties of objects, actions, and attributes .....	8
4.3.2	Textual properties .....	8
4.3.3	Iconic representation .....	8
4.3.4	Tonal representation .....	8
4.3.5	Tactile and Haptic representation .....	9
4.3.6	Standard representation properties of objects, actions, and attributes .....	9
4.3.7	Variations of representations .....	9
4.3.8	Cultural and linguistic sensitivity of representations .....	9
4.4	Operational properties of objects, actions, and attributes .....	9
4.4.1	Separation of operations .....	9
4.4.2	Selection of an object, action, or attribute .....	9
4.4.3	Obtaining information .....	10
4.4.4	Modifying values .....	10
4.4.5	Removing and restoring items .....	10
4.4.6	Activation of function .....	10

4.5	Technical specifications .....	10
5	Optional properties .....	10
5.1	Attribute specific optional properties .....	10
5.1.1	Inclusion of attribute specific optional properties .....	10
5.1.2	Values .....	11
5.1.3	Constraints .....	11
5.1.4	Permitted values .....	11
5.1.5	Default values .....	11
5.1.6	Higher structure .....	11
5.1.7	Peer structure .....	11
5.1.8	Lower structure .....	11
5.1.9	Physical structure .....	11
5.2	Operation specific optional properties .....	11
5.2.1	Inclusion of operational specific optional properties .....	11
5.2.2	Pre-conditions .....	12
5.2.3	Post-conditions .....	12
5.2.4	Error conditions .....	12
Annex A (informative) Developers of this Technical Report .....		13