

4.16	Sample operations when managing electronic contracts	130
4.17	General structure of an service level agreement [LDF ⁺ 02] . . .	139
4.18	Simplified model of contracts applied in a WFWM [KGV99] . . .	141
5.1	The communication model [Sch71]	146
5.2	The rights expression communication model	147
5.3	Components of a rights expression exchange framework	151
6.1	Technology used in the rights expression exchange framework	158
6.2	Features of XOTcl, OTcl, and Tcl	159
6.3	Basic architecture of ActiWeb [NZ00a]	160
6.4	A general DOM-tree	162
6.5	Choice of ODRL tags	166
6.6	Display and store generated ODRL rights expression	166
6.7	Choosing constraints via the customised generator GUI	167
6.8	Reused software packages in the rights expression generator .	168
6.9	Class hierarchy of ODRL specific elements	169
6.10	Functional layers of XML-based rights expressions	170
6.11	The interpretation process	171
6.12	Classes of the package <code>contract</code>	173
6.13	Classes of the package <code>reInterpreter</code>	175
6.14	Packages with wrapping respectively unwrapping functionality	182
6.15	The mediator, using framework components and other packages	183
7.1	Execution of an access request	193
7.2	Sample access permission with constraints	193
7.3	xoRBAC access control decisions with context constraints . . .	195
7.4	The application-specific CoSa	198
7.5	Provide license templates with the generator	199
7.6	Mediator code combining generator and wrapper functionality	201
7.7	Sequence diagram with basic activities of the secure viewer .	202
7.8	Runtime model of the DRM CoSa objects	204
9.1	The foundation model of ODRL [Ian02b]	216

List of Tables

4.1	Characteristics of application-specific and domain-specific CoSa	117
4.2	Possible role names in application-specific CoSa	121
6.1	Possible role names in application-specific CoSa	174
6.2	Mapping of ODRL asset context to CoSaResource objects	178
6.3	Mapping of ODRL party context to CoSaParty objects	179
6.4	Mapping of ODRL agreement/offer context to CoSaContract objects	180

