

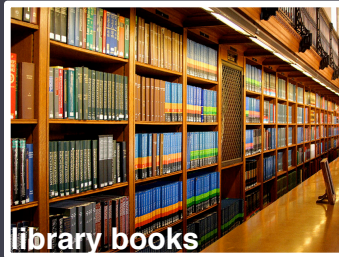
:: rfid deployments ::

the properties of real applications

uw cse soctech group



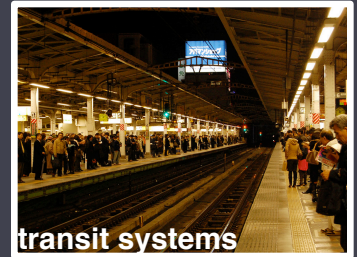
electronic tolls



library books



credit cards



transit systems



key card access



passports



supply chain



retail goods

application	example	tag type	read range	encryption	reader cost	tag cost	disable	capacity
electronic tolls	ez pass	active	> 10 m	none	> \$2000	< \$10	no	256 bits
library books	seattle public library	passive	< 10 cm	none	> \$2000	< \$0.75	no	256 bits
credit cards	american express	passive	< 10 cm	none	< \$200	< \$0.25	no	1024 bits
transit systems	orca card	passive	< 10 cm	maybe	< \$250	< \$1	no	16 kbytes
key card access	hid proxcard	passive	< 10 cm	none	< \$250	< \$2	no	26-128 bits
passports	us passports	passive	< 10 cm	yes	> \$2000	< \$3	physical	64 kbytes
supply chain	walmart	passive	< 10 m	none	> \$2000	< \$0.25	kill	96-512 bits
retail goods	the gap	passive	< 10 m	none	> \$2000	< \$0.10	kill	96-512 bits