SPD Taxonomy: technology table

Technology (1):			
SPD Domain (2):			
Functionalities (3)			

General Parameters (4)	Name (4)	Metric (5)	Range (6)

(Technological) Domain specific parameters (7)	Name	Metric	Range
Note:			

(1) Name of a specific technology that we will introduce in the SHIELD Framework (it could be hardware, software, algorithm, procedure,…)
(2) Security and/or Privacy and/or Dependability
(3) Functionalities that the technology will provide within the mentioned domain
(4) General parameters to describe the technology
(5) Metrics applicable to the selected parameter
(6) Range of variation of the metric
(7) Parameters peculiar of the specific technology/domain and/or relevant in the scope of the SHIELD framework.

Example A

Technology (1):	Chip for asymmetric cryptography			
SPD Domain (2):	Security	Privacy		
Functionalities (3)	Data encryption	Data encryption		
	Digital Signature			
	Authentication			

	Name (4)		Metric (5)	Range (6)
General Parameters (4)	Type		Discrete value	HW-SW
	Size		Discrete value	Small-Medium-Large
	Number of input		integer	0-64
	Number of output		integer	0-64
	Power supply		Type	Battery - network
	Clock Frequency		Hz	1Mhz-1Ghz

	Name		Metric	Range
(Technological) Domain specific parameters (7)	Used encryption algorithm		Discrete value	--
	Key length		bit	128-2048
	Power consumption		mW per second	0.01-0.1
	Input/Output data rate		kbps	10-10.000
	Byte encription time		ms/byte	0.001-0.1
	Resistance to brute force attack		days	0-1B

Note:	A similar table could be written for EACH encryption algorithm supported by the chip, so the technological domain specific parameters become different for each algorithm table.

Example B

Technology (1):	Overlay		
SPD Domain (2):	Security	Privacy	Dependability
Functionalities (3)	Monitoring	Monitoring	Monitoring
	Discovery	Discovery	Discovery
	Composition	Composition	Composition

	Name (4)	Metric (5)	Range (6)
General Parameters (4)	Type	Discrete value	HW-SW
	HW requirements to run overlay (CPU)	Hz	1Mhz-1Ghz
	HW requirements to run overlay (Memory)	Byte	1MB-1GB
	SW requirements to run	OS	--

	Name	Metric	Range
(Technological) Domain specific parameters (7)	Maximum number of managed entities	integer	1-1.000
	Time for complete discovery (most likely it is a function of the number of entities)	s	1-600
	Time for composition (most likely it is a function of the number of entities)	s	1-600
	Reaction time (monitoring)	s	0.1-5
	Supported Discovery Protocol	Discrete value	--

Note:	A similar table could be written for EACH supported discovery protocol