

## Security-relevant technologies

### Sorting

- 1: Security relevance
- 2: Technology cluster

Line No.	Technology cluster	Technology / Application	Capability areas 1 Command & Control 2 Intelligence service 3 Effectiveness in operation 4 Mobility 5 Protection of own forces 6 Support and sustainability	Security relevance 3 critical 2 high 1 medium (0.5 low)
1	Antenna technologies	<a href="#">Adaptive antennas</a>	1, 2	3
2	CBRNE sensor technologies	<a href="#">B-antibodies</a>	2, 5	3
3	CBRNE sensor technologies	<a href="#">Immunoassay detectors</a>	2, 5	3
4	CBRNE sensor technologies	<a href="#">Ge-gamma detectors</a>	2, 5	3
5	Communication technologies	<a href="#">COMINT ESM</a>	1	3
6	Communication technologies	<a href="#">COMINT ECM/ECCM</a>	1, 2, 3, 5	3
7	Communication technologies	<a href="#">Routing technology</a>	1	3
8	Communication technologies	<a href="#">Software defined radio technologies</a>	1, 2	3
9	Communication technologies	<a href="#">Software encryption (cryptology)</a>	1	3
10	Communication technologies	<a href="#">Optical networking</a>	1	3
11	Communication technologies	<a href="#">5G</a>	1-6	3
12	Computer technologies	<a href="#">Operating systems</a>	1-6	3
13	Computer technologies	<a href="#">Virtualization (desktops, networks, datacenters)</a>	1-6	3
14	Cyber security technologies	<a href="#">VPN technologies</a>	1-6	3
15	Cyber security technologies	<a href="#">Firewalls</a>	1-6	3



16	Cyber security technologies	<a href="#">Authentication technology</a>	1, 2	3
17	Cyber security technologies	<a href="#">Vulnerability assessment (computing)</a>	1-6	3
18	Cyber security technologies	<a href="#">Cryptology</a>	2-6	3
19	Cyber security technologies	<a href="#">Digital forensics</a>	2-6	3
20	Energy technologies	<a href="#">Batteries and accumulators</a>	1, 2, 3, 4, 6	3
21	Energy technologies	<a href="#">Power generator</a>	1, 2, 5, 6	3
22	Energy technologies	<a href="#">Mobile power generator</a>	1, 3, 4, 5, 6	3
23	Energy technologies	<a href="#">Mains power</a>	1, 2, 4, 5, 6	3
24	Energy technologies	<a href="#">Independent power supply</a>	1, 2, 5, 6	3
25	Energy technologies	<a href="#">Synthetic fuel</a>	1, 2, 4, 6	3
26	Information technologies	<a href="#">Big data analytics</a>	1, 2	3
27	Information technologies	<a href="#">Data fusion</a>	1-6	3
28	Information technologies	<a href="#">Management information systems</a>	1, 2	3
29	Information technologies	<a href="#">Supercomputer</a>	1-6	3
30	Physical effect technologies	<a href="#">Ballistics (interior-, transitional-, external- and terminal ballistics)</a>	3	3
31	Physical protection technologies	<a href="#">Vulnerability models</a>	1, 2, 3, 5	3
32	Platform technologies	<a href="#">Fixed wing jet fighters</a>	2, 4	3
33	Platform technologies	<a href="#">UAV</a>	2, 4	3
34	Radar technologies	<a href="#">Primary radar</a>	2	3
35	Radar technologies	<a href="#">Recognized air picture</a>	2	3
36	Radar technologies	<a href="#">Identification friend or foe</a>	2	3
37	Antenna technologies	<a href="#">AESA</a>	1, 2	2
38	Antenna technologies	<a href="#">MIMO technology</a>	1, 2	2
39	Antenna technologies	<a href="#">Adaptive beamforming</a>	1, 2	2
40	Antenna technologies	<a href="#">Multifrequency antennas</a>	1, 2	2
41	Antenna technologies	<a href="#">Conformal/Integrated antennas (textiles, aircraft)</a>	1, 2	2
42	CBRNE sensor technologies	<a href="#">Ion drift detectors</a>	2, 5	2
43	CBRNE sensor technologies	<a href="#">Mass spectrometers</a>	2, 5	2
44	CBRNE sensor technologies	<a href="#">Gamma ray detectors</a>	5	2
45	Communication technologies	<a href="#">HF radio technology</a>	1	2

46	Communication technologies	<a href="#">VHF/UHF radio technology</a>	1	2
47	Communication technologies	<a href="#">VoIP</a>	1	2
48	Communication technologies	<a href="#">Wireless WAN/MAN/LAN technology</a>	1	2
49	Communication technologies	<a href="#">Mobile adhoc networks (MANET)</a>	1	2
50	Communication technologies	<a href="#">Cognitive radio technology</a>	1, 2	2
51	Communication technologies	<a href="#">Directional beam technology</a>	1	2
52	Communication technologies	<a href="#">Hardware encryption</a>	1	2
53	Communication technologies	<a href="#">Wired network technologies</a>	1	2
54	Communication technologies	<a href="#">Time allocation (synchronization)</a>	1, 2	2
55	Countermeasure technologies	<a href="#">Military camouflage</a>	2, 3, 5	2
56	Countermeasure technologies	<a href="#">Multi-spectral camouflage</a>	2, 3, 5	2
57	Countermeasure technologies	<a href="#">Active camouflage</a>	2, 3, 5	2
58	Countermeasure technologies	<a href="#">Stealth technology</a>	2, 3, 5	2
59	Countermeasure technologies	<a href="#">Radiation-absorbent material</a>	2, 3, 5	2
60	Countermeasure technologies	<a href="#">Chaff countermeasure</a>	2, 3, 5	2
61	Countermeasure technologies	<a href="#">Flare countermeasure</a>	2, 3, 5	2
62	Countermeasure technologies	<a href="#">Hardening against electromagnetic pulse</a>	2, 3, 5	2
63	Cyber security technologies	<a href="#">Trusted execution environment</a>	1-6	2
64	Cyber security technologies	<a href="#">Hardware security module</a>	1-6	2
65	Cyber security technologies	<a href="#">Software verification</a>	1-6	2
66	Cyber security technologies	<a href="#">Antivirus software</a>	1-6	2
67	Cyber security technologies	<a href="#">Intrusion detection</a>	1-6	2
68	Cyber security technologies	<a href="#">Denial-of-service techniques</a>	1-6	2
69	Cyber security technologies	<a href="#">Traffic analysis</a>	1-6	2
70	Cyber security technologies	<a href="#">Privacy-preserving technologies</a>	1-6	2
71	Energy technologies	<a href="#">Propellants</a>	3, 5, 6	2
72	Energy technologies	<a href="#">Explosives</a>	3, 5, 6	2
73	Energy technologies	<a href="#">Pyrotechnics</a>	3, 5, 6	2
74	Information technologies	<a href="#">Cloud computing security</a>	1, 2, 4	2
75	Information technologies	<a href="#">Natural language processing</a>	1, 2	2



76	Information technologies	<a href="#">Knowledge graph</a>	1, 2	2
77	Navigation technologies	<a href="#">Satellite-based navigation (GNSS). I.e. GPS, GLONASS, Galileo</a>	1, 2	2
78	Navigation technologies	<a href="#">Geoinformation technology</a>	2	2
79	Navigation technologies	<a href="#">GNSS ECM/ECCM</a>	1, 2	2
80	Navigation technologies	<a href="#">Inertial navigation systems</a>	2	2
81	Navigation technologies	<a href="#">Multilateration</a>	2	2
82	Optical sensor technologies	<a href="#">Digital camera</a>	2	2
83	Optical sensor technologies	<a href="#">Infrared sensor</a>	2	2
84	Optical sensor technologies	<a href="#">Hyperspectral imaging sensor</a>	2	2
85	Optical sensor technologies	<a href="#">UV detectors</a>	2	2
86	Optical sensor technologies	<a href="#">Photocathode</a>	2	2
87	Optical sensor technologies	<a href="#">Optical amplifier</a>	2	2
88	Optical sensor technologies	<a href="#">LIDAR sensor</a>	2	2
89	Optical sensor technologies	<a href="#">Imagery intelligence</a>	2	2
90	Physical effect technologies	<a href="#">Assault rifle</a>	3	2
91	Physical effect technologies	<a href="#">Grenade launcher / Mortar</a>	3	2
92	Physical effect technologies	<a href="#">Artillery guns</a>	3	2
93	Physical effect technologies	<a href="#">Medium calibre guns</a>	3	2
94	Physical effect technologies	<a href="#">Explosives</a>	3	2
95	Physical effect technologies	<a href="#">Software impact models</a>	3	2
96	Physical effect technologies	<a href="#">Software for mission planning and simulators</a>	3	2
97	Physical effect technologies	<a href="#">Software and networks for fire control</a>	1, 2, 3	2
98	Physical effect technologies	<a href="#">Rocket ballistics</a>	3	2
99	Physical protection technologies	<a href="#">Active protection technologies</a>	1, 2, 5	2
100	Physical protection technologies	<a href="#">ERA technology</a>	5	2
101	Physical protection technologies	<a href="#">NERA technology</a>	5	2
102	Physical protection technologies	<a href="#">Ceramics and composite materials</a>	5	2
103	Physical protection technologies	<a href="#">Electromagnetic armour</a>	5	2
104	Physical protection technologies	<a href="#">Mine detection technology</a>	5	2
105	Platform technologies	<a href="#">Lightly armoured vehicles</a>	2, 4	2



106	Platform technologies	<a href="#">Fixed wing propellers</a>	2, 4	2
107	Platform technologies	<a href="#">Helicopters</a>	4	2
108	Radar technologies	<a href="#">Synthetic-aperture radar</a>	2	2
109	Radar technologies	<a href="#">Radar tracker</a>	2	2
110	Radar technologies	<a href="#">Cognitive radio</a>	2	2
111	Radar technologies	<a href="#">MIMO radar</a>	2	2
112	Radar technologies	<a href="#">Multistatic radar</a>	2	2
113	Radar technologies	<a href="#">Radar signal processing</a>	2	2
114	Radar technologies	<a href="#">Geo warping</a>	2	2
115	Radar technologies	<a href="#">Multi-Sensor Data Fusion</a>	2	2
116	Radar technologies	<a href="#">Classification algorithms</a>	2	2
117	Radar technologies	<a href="#">Signals intelligence</a>	2	2
118	Radar technologies	<a href="#">TCAS Traffic collision avoidance system</a>	2	2
119	Radar technologies	<a href="#">ADS-B Automatic Dependent Surveillance–Broadcast</a>	2	2
120	Acoustic sensor technologies	<a href="#">Analogue and digital microphones</a>	2	1
121	Acoustic sensor technologies	<a href="#">Microphone arrays</a>	2	1
122	Acoustic sensor technologies	<a href="#">Artillery sound ranging</a>	2	1
123	Acoustic sensor technologies	<a href="#">Infrasound</a>	2	1
124	Acoustic sensor technologies	<a href="#">Acoustic location</a>	2	1
125	Antenna technologies	<a href="#">Reconfigurable antenna</a>	1	1
126	Communication technologies	<a href="#">EHF/SHF radio technology</a>	1	1
127	Communication technologies	<a href="#">Terahertz technology</a>	1, 2	1
128	Communication technologies	<a href="#">Repeater- and amplifying technologies</a>	1	1
129	Communication technologies	<a href="#">Quantum encryption</a>	1	1
130	Computer technologies	<a href="#">Active RFID technologies</a>	1, 2, 6	1
131	Computer technologies	<a href="#">Passive RFID technologies</a>	1, 2, 6	1
132	Computer technologies	<a href="#">Middleware</a>	1-6	1
133	Computer technologies	<a href="#">Database systems</a>	1-6	1
134	Computer technologies	<a href="#">Internet of things</a>	1-6	1
135	Computer technologies	<a href="#">Human computer interaction</a>	1-6	1



136	Cyber security technologies	<a href="#">Deception technology</a>	2-6	1
137	Energy technologies	<a href="#">Hydropower technologies</a>	1, 2, 5, 6	1
138	Energy technologies	<a href="#">Solar collector technologies</a>	1, 2, 4, 6	1
139	Energy technologies	<a href="#">Wind Energy technologies</a>	1, 2, 4, 6	1
140	Energy technologies	<a href="#">BioEnergy technologies</a>	1, 2, 5, 6	1
141	Information technologies	<a href="#">Machine learning</a>	1-6	1
142	Information technologies	<a href="#">Search engines</a>	1-6	1
143	Information technologies	<a href="#">Web crawling technologies</a>	1, 2	1
144	Information technologies	<a href="#">Crowd sourcing technologies</a>	1	1
145	Optical sensor technologies	<a href="#">Spectral imaging</a>	2	1
146	Optical sensor technologies	<a href="#">Interferometry</a>	2	1
147	Optical sensor technologies	<a href="#">Laser</a>	2	1
148	Optical sensor technologies	<a href="#">Image stitching</a>	2	1
149	Optical sensor technologies	<a href="#">Panoramic cameras</a>	2	1
150	Optical sensor technologies	<a href="#">Projection mapping</a>	1, 2	1
151	Optical sensor technologies	<a href="#">Change detection</a>	2	1
152	Physical effect technologies	<a href="#">Rifle cartridges</a>	3	1
153	Physical effect technologies	<a href="#">Small arms and handguns</a>	3	1
154	Physical effect technologies	<a href="#">Pistol cartridges</a>	3	1
155	Physical effect technologies	<a href="#">Hollow-point bullet</a>	3	1
156	Physical effect technologies	<a href="#">Armor-piercing ammunition</a>	3	1
157	Physical effect technologies	<a href="#">Smoothbore guns</a>	3	1
158	Physical effect technologies	<a href="#">Metallurgy and barrel production</a>	3	1
159	Physical effect technologies	<a href="#">Explosive mines</a>	3	1
160	Physical effect technologies	<a href="#">Solid propellant rocket technology</a>	3	1
161	Physical effect technologies	<a href="#">Liquid propellant rocket technology</a>	3	1
162	Physical effect technologies	<a href="#">Fragmentation grenades</a>	3	1
163	Physical effect technologies	<a href="#">Flash-bang grenades</a>	3	1
164	Physical effect technologies	<a href="#">Shotgun rubber cartridges</a>	3	1
165	Physical effect technologies	<a href="#">Shape charge cartridges</a>	3	1
166	Physical effect technologies	<a href="#">Projectile-forming charges</a>	3	1



167	Physical effect technologies	<a href="#">Materials science/ metal alloy</a>	3	1
168	Physical effect technologies	<a href="#">APFSDS technology</a>	3	1
169	Physical effect technologies	<a href="#">Metallurgy for APFSDS</a>	3	1
170	Physical effect technologies	<a href="#">HESH charges</a>	3	1
171	Physical effect technologies	<a href="#">Pressure charges</a>	3	1
172	Physical effect technologies	<a href="#">Thermobaric technology</a>	3	1
173	Physical effect technologies	<a href="#">Mechanical fuzes</a>	3	1
174	Physical effect technologies	<a href="#">Electronic fuzes</a>	3	1
175	Physical effect technologies	<a href="#">Frangible technology</a>	3	1
176	Physical effect technologies	<a href="#">AHEAD technology</a>	3	1
177	Physical effect technologies	<a href="#">Bunker penetrators</a>	3	1
178	Physical effect technologies	<a href="#">High energy laser weapons</a>	3	1
179	Physical effect technologies	<a href="#">High power microwaves</a>	3	1
180	Physical protection technologies	<a href="#">Concrete technology (HPFRC)</a>	5	1
181	Platform technologies	<a href="#">Heavily armoured vehicles</a>	2, 4	1
182	Platform technologies	<a href="#">Track technology</a>	2, 4	1
183	Platform technologies	<a href="#">Multi-wheel off-road technology</a>	2, 4	1
184	Platform technologies	<a href="#">Terramechanics</a>	4	1
185	Platform technologies	<a href="#">Drive and drive transmission technology</a>	4	1
186	Platform technologies	<a href="#">Ground robots (e.g. IED, Rescue)</a>	2, 4	1
187	Platform technologies	<a href="#">Avionics</a>	4	1
188	Platform technologies	<a href="#">Aerodynamics</a>	4	1
189	Platform technologies	<a href="#">Sense and avoid technology</a>	4	1
190	Platform technologies	<a href="#">Micro and mini UAV</a>	2, 4	1
191	Platform technologies	<a href="#">Flight simulator technologies</a>	4	1
192	Platform technologies	<a href="#">Driving simulator technologies</a>	4	1
193	Radar technologies	<a href="#">Airport surveillance radar</a>	2	1
194	Radar technologies	<a href="#">Remote sensing</a>	2	1
195	Radar technologies	<a href="#">Pulse compression</a>	2	1
196	Radar technologies	<a href="#">Deep learning</a>	2	1
197	Radar technologies	<a href="#">Moving target indication</a>	2	1
198	Robotics technologies	<a href="#">Swarm intelligence</a>	1, 3, 4, 5, 6	1



199	Communication technologies	<a href="#">Data compression</a>	1-6	0.5
200	Energy technologies	<a href="#">Lubricants</a>	3, 4, 6	0.5
201	Optical sensor technologies	<a href="#">Analog camera</a>	2	0.5
202	Platform technologies	<a href="#">Transport vehicles</a>	2, 4	0.5
203	Platform technologies	<a href="#">Autonomous or semi-autonomous vehicles</a>	2, 4	0.5
204	Platform technologies	<a href="#">Alternative drive concepts (e.g. legged)</a>	2, 4	0.5
205	Platform technologies	<a href="#">Diagnostic systems</a>	4	0.5