

Sector	Prohibited Transactions under current Outbound Investment Regulations	Notifiable Transactions under current Outbound Investment Regulations	“Prohibited Technology” under COINS Act	“Notifiable Technology” under COINS Act
Semiconductors	<ol style="list-style-type: none"> 1. Develops or produces any electronic design automation software for the design of integrated circuits or advanced packaging; 2. Develops or produces any: <ol style="list-style-type: none"> a. Front-end semiconductor fabrication equipment designed for performing the volume fabrication of integrated circuits; b. Equipment for performing volume advanced packaging; or c. Commodity, material, software or technology designed exclusively for use in or with extreme ultraviolet lithography fabrication equipment. 3. Designs any integrated circuit that meets or exceeds the performance parameters in Export Control Classification Number 3A090.a, or integrated circuits designed for operation at or below 4.5 Kelvin; 4. Fabricates any of the following: 	Designing, fabricating or packaging any integrated circuit.	Advanced semiconductor technology and microelectronics	Semiconductor technology and microelectronics

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	<ul style="list-style-type: none"> a. Logic-integrated circuits using a nonplanar transistor architecture or with a production technology node of 16/14 nanometers or less; b. NOT-AND (NAND) memory-integrated circuits with 128 layers or more; c. Dynamic random-access memory (DRAM)-integrated circuits using a technology node of 18 nanometer halfpitch or less; d. Integrated circuits manufactured from a gallium-based compound semiconductor; e. Integrated circuits using graphene transistors or carbon nanotubes; or f. Integrated circuits designed for operation at or below 4.5 Kelvin; <p>5. Packages any integrated circuit using advanced packaging techniques;</p>			

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Supercomputers	Develops, installs, sells or produces any supercomputer enabled by advanced integrated circuits that can provide a theoretical compute capacity of 100 or more double-precision (64bit) petaflops or 200 or more single-precision (32-bit) petaflops of processing power within a 41,600 cubic foot or smaller envelope;	None	High-performance computing and supercomputing (it is unclear what the additional scope, if any, of "high-performance computing" will be)	High-performance computing and supercomputing (it is unclear what the additional scope, if any, of "high-performance computing" will be)
Quantum	<p>Develops a quantum computer, or produces any of the critical components required to produce a quantum computer such as a dilution refrigerator or two-stage pulse tube cryocooler;</p> <p>Develops or produces any quantum sensing platform designed for, or which the relevant covered foreign person intends to be used for, any military, government intelligence or mass-surveillance end use;</p> <p>Develops or produces quantum network or quantum communication system for networking to scale up capabilities; secure communications; military, government intelligence or mass-surveillance end use.</p>	None	Quantum information technologies	Quantum information technologies

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Artificial Intelligence (AI)	<p>Develops any AI system that is designed to be <i>exclusively used for</i>, or which the relevant covered foreign person intends to be used for, any:</p> <ol style="list-style-type: none"> 1. Military end use, or 2. Government intelligence or mass-surveillance end use; <p>Develops any AI system that is trained using a quantity of computing power greater than:</p> <ol style="list-style-type: none"> 1. 10^{25} computational operations (e.g., integer or floating-point operations), or 2. 10^{24} computational operations (e.g., integer or floating-point operations) using primarily biological sequence data. 	<p>Develops any AI system not otherwise covered by the prohibited transaction definition, where such AI system is:</p> <ol style="list-style-type: none"> 1. Designed to be used for any military end use or government intelligence or mass-surveillance end use; 2. Intended to be used for any of the following: <ol style="list-style-type: none"> a. cybersecurity applications, b. digital forensics tools, c. penetration testing tools, or d. the control of robotic systems; or 3. Trained using a quantity of computing power greater than 10^{23} computational 	Artificial intelligence systems	Artificial intelligence systems

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		operations (e.g., integer or floating-point operations).		
Hypersonic Systems	<i>Not covered</i>	<i>Not covered</i>	Hypersonic systems	Hypersonic systems