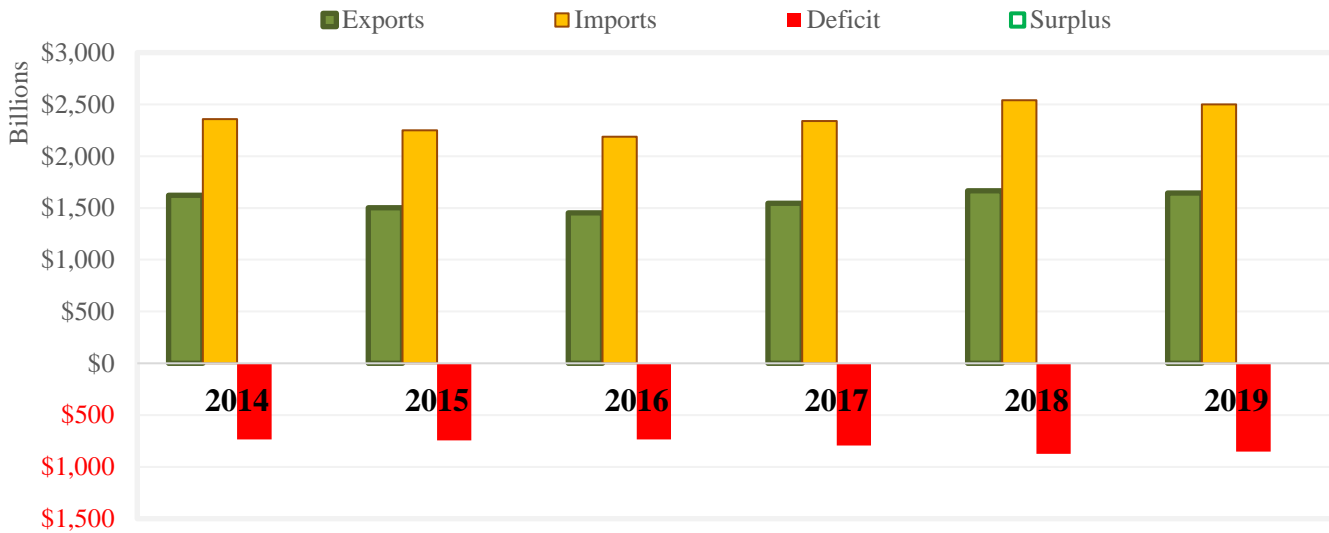




## I. Total U.S. Trade with the World

In 2019, both U.S. exports and imports decreased slightly from 2018; however, both U.S. export and import values remained higher than the average level of the last five years. In 2019, U.S. exports totaled \$1.6 trillion, a 1.4% (\$22.5 billion) decrease; U.S. imports totaled \$2.5 trillion, a 1.6% (\$40.2 billion) decrease; and the trade deficit was \$854.4 billion, a 2.0% (\$17.7 billion) decrease.

US World Total: Total Trade in Goods



Source: U.S. Census Bureau USATrade Portal retrieved March 15, 2020

	2014	2015	2016	2017	2018	2019	2014-2018 Average
EXPORTS	\$1,621,873.8	\$1,503,328.3	\$1,451,459.7	\$1,546,473.5	\$1,665,688.5	\$1,643,160.9	\$1,557,764.8
Δvalue		-\$118,545.4	-\$51,868.7	\$95,013.8	\$119,215.0	-\$22,527.6	
Δpct		-7.3%	-3.5%	6.5%	7.7%	-1.4%	
IMPORTS	\$2,356,356.1	\$2,248,811.4	\$2,186,785.9	\$2,339,884.0	\$2,537,729.3	\$2,497,531.5	\$2,333,913.3
Δvalue		-\$107,544.7	-\$62,025.5	\$153,098.1	\$197,845.3	-\$40,197.8	
Δpct		-4.6%	-2.8%	7.0%	8.5%	-1.6%	
BALANCE	(\$734,482.3)	(\$745,483.0)	(\$735,326.2)	(\$793,410.6)	(\$872,040.8)	(\$854,370.6)	(\$776,148.6)
Δvalue		(\$11,000.7)	\$10,156.8	(\$58,084.4)	(\$78,630.2)	\$17,670.2	
Δpct		1.5%	-1.4%	7.9%	9.9%	-2.0%	

Values in Millions of U.S. Dollars. Source: U.S. Census Bureau USATrade Portal March 15, 2020



The top commodity sectors traded in 2019 were the same for both exports and imports. Of the \$1.6 trillion in U.S. exports to the World in 2019, the top commodity sectors were machinery and mechanical appliances (23.1%), transportation equipment (16.7%), and chemicals, plastics and leather products (15.6%).

Of the \$2.5 trillion in U.S. imports from the World in 2019, the top commodity sectors were machinery and mechanical appliances (28.7%), transportation equipment (13.8%), and chemicals, plastics and leather products (13.7%).

Imports from World Total by Sector	World Total Commodity Trade 2019	US exports to World Total by Sector
<b>\$2,497,531,500,000</b>	<b>Total Value All Commodities</b>	<b>\$1,643,160,900,000</b>
6.3%	Agriculture (Chapters 01-24)	8.6%
8.3%	Minerals (Chapters 25-27)	12.8%
13.7%	Chemicals, Plastics, Leather (Chapters 28-43)	15.6%
1.7%	Wood Products (Chapters 44-49)	2.2%
5.9%	Textiles and Footwear (Chapters 50-67)	1.7%
3.2%	Stone, Glass, & Semiprecious Metals (Chapters 68-71)	4.3%
5.1%	Base metals (Chapters 72-83)	4.1%
28.7%	Machinery (Chapters 84-85)	23.1%
13.8%	Transportation (Chapters 86-89)	16.7%
4.1%	Optical, Measuring, Medical or Other Instruments (Chapters 90-92)	5.7%
0.1%	Arms & Ammunition (Chapter 93)	0.4%
4.1%	Miscellaneous Manufactured Items (Chapters 94 -96)	1.2%
0.5%	Art & Antiques (Chapter 97)	0.8%
4.5%	Special Items (Chapters 98-99** Imports only 99)	2.9%
Source: U.S. Census Bureau USATrade Portal retrieved March 15, 2020		



## II. Exports to the World subject to US Government Filing Requirements

In 2019, U.S. exported \$1.6 trillion in goods, of which \$46.4 billion (2.8% of the total exports) was exported under a government license:

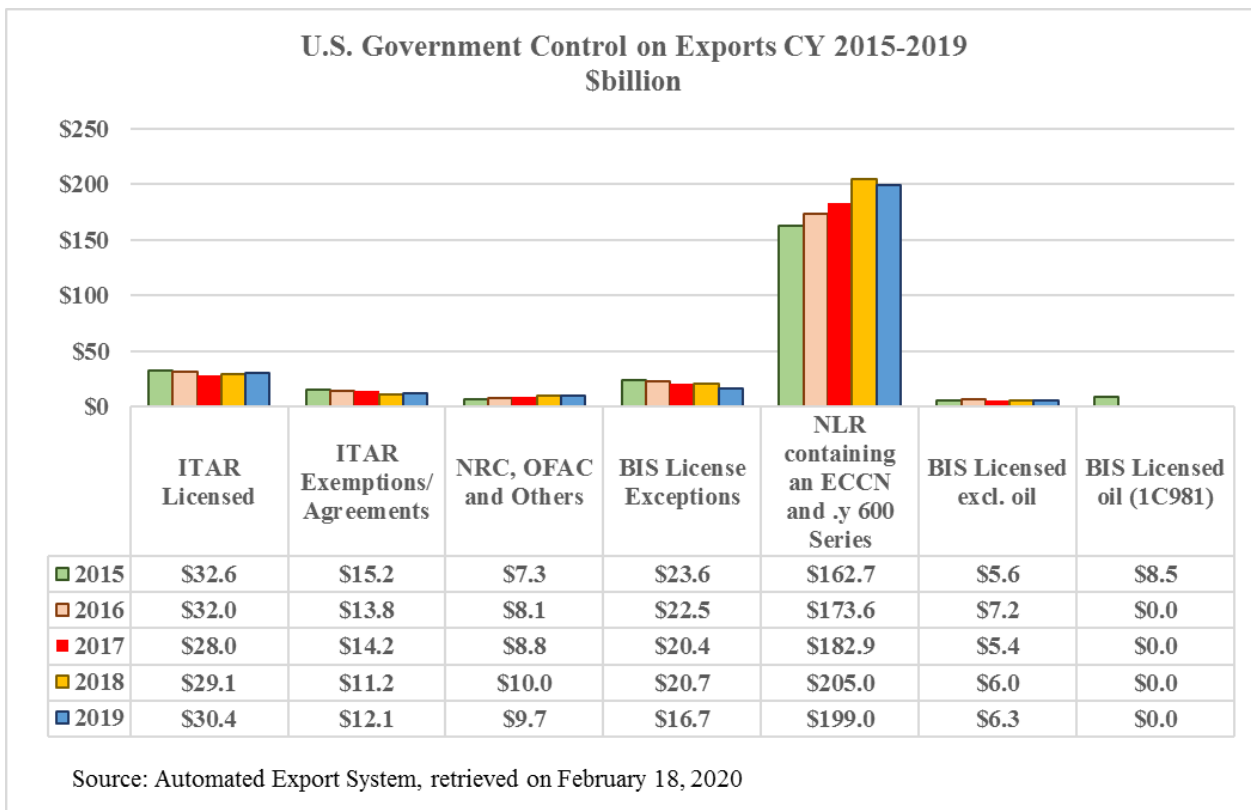
- \$6.3 billion was licensed by BIS, an increase of 5.6% (\$333.1 million);
- \$30.4 billion was licensed under ITAR, an increase of 4.5% (\$1.3 billion); and
- \$9.7 billion was licensed by NRC, OFAC and other government agencies, a decrease of 2.8% (\$282.2 million).

In 2019, \$28.8 billion (1.8% of the total exports) was exported under a government license exception/exemption/agreement:

- \$16.7 billion was under BIS license exceptions (C35-C59, C62), a decrease of 19.5% (\$4.0 billion); and
- \$12.1 billion was under ITAR license exemption/agreements, an increase of 7.9% (\$885.4 million).

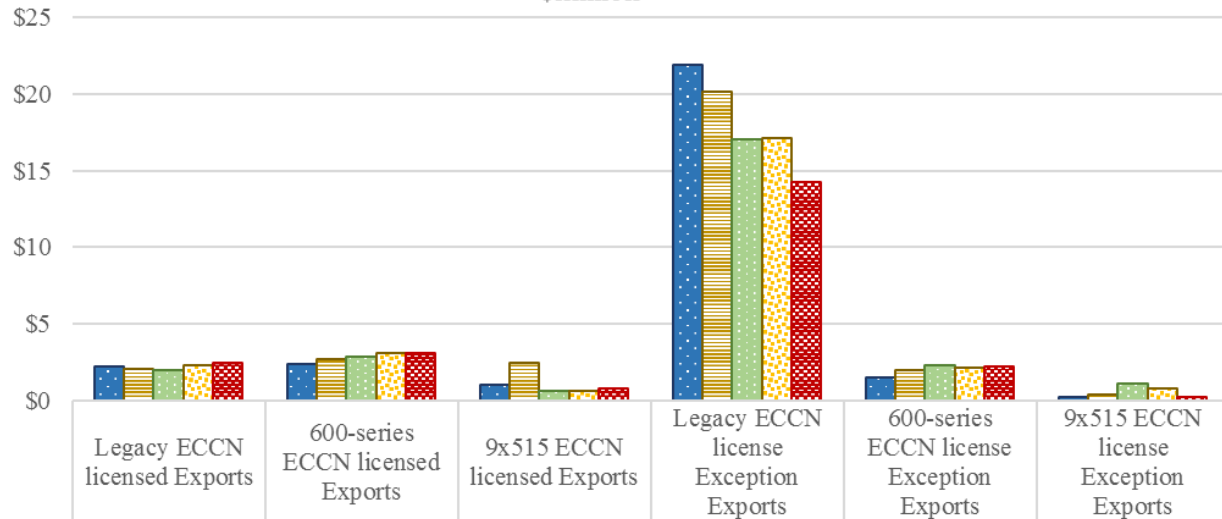
In 2019, \$199.0 billion (12.1%) was exported under No License Required (NLR):

- \$198.6 billion was under NLR with an ECCN reported (not including EAR99), a decrease of 2.9% (\$6.0 billion); and
- \$318.9 million was under NLR for 600-Series .y 600 sub-para items, a decrease of 1.5% (\$4.7 million).





**U.S. Exports of Items with ECCNs Created by USML to CCL Regulatory Changes and All Other ECCNs**  
2015 - 2019  
\$million



Source: U.S. Customs & Border Protection, Electronic Export Information Filing, February 14, 2020



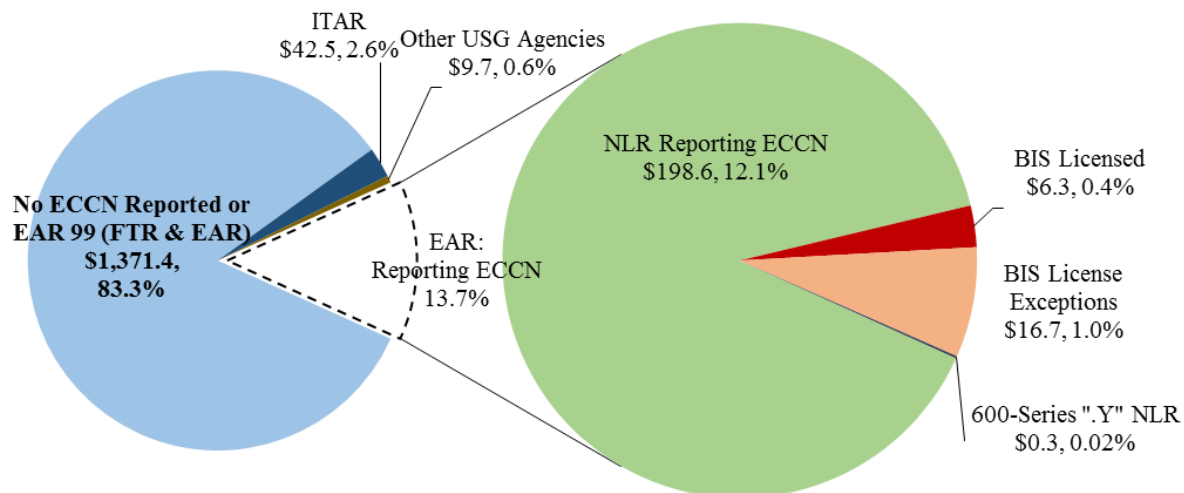
## Analysis of Exports to the World subject to U.S. Government Filing Requirements

2019

In 2019, of the \$1.6 trillion in U.S. exports to the World:

- \$22.9 billion (1.4% of the total exports) were subject to a BIS license requirement:
  - 0.4% was exported under a BIS license.
  - 1.0% was exported under a BIS license exception.
- \$199.0 billion (12.1%) were exported under No License Required (NLR) with an ECCN reported and NLR for .y 600-series items.
  - 12.1% was exported under NLR with an ECCN reported; and
  - 0.02% was exported under NLR for .y 600-series items.

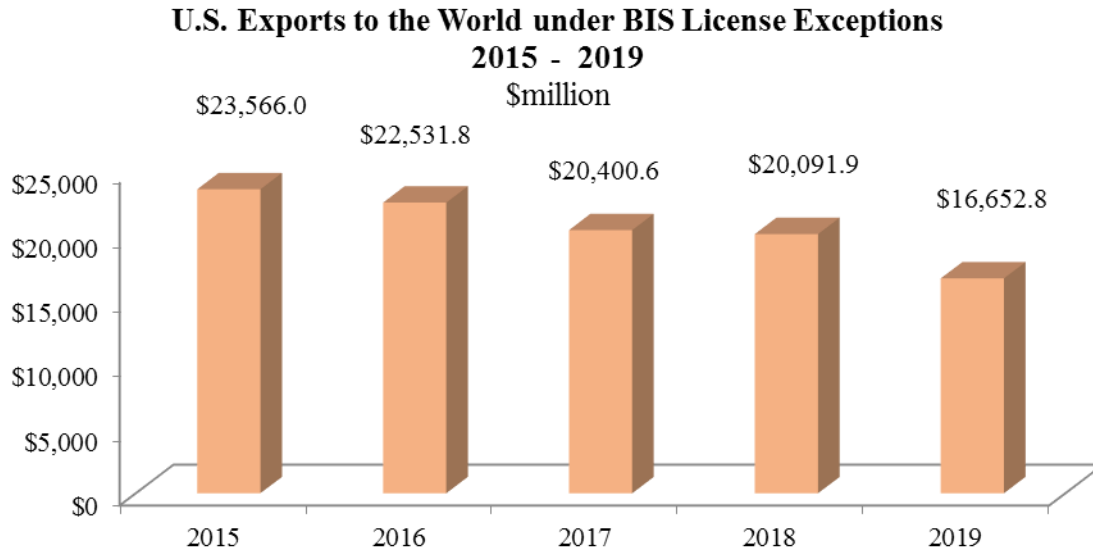
**2019 U.S. Exports to the World: Export Authorizations by Regulatory Authorities  
\$billion**



Source: Automated Export System, retrieved on February 18, 2020

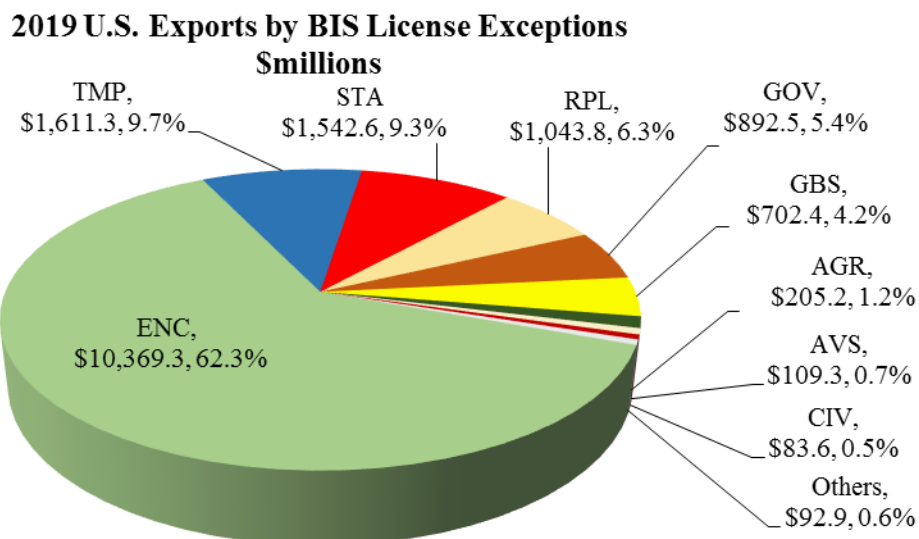


In 2019, U.S. exports to the World shipped under a BIS license exception totaled \$16.7 billion, a decrease of 19.5% (\$4.0 billion) from 2018.



Source: Automated Export System, retrieved on February 18, 2020

In 2019, the top license exception, Encryption Commodities, Software and Technology (ENC) totaled \$10.4 billion (62.3% of all license exceptions), followed by Temporary imports, exports, re-exports and transfers (in-country) (TMP) at \$1.6 billion (9.7%) and Strategic Trade Authorization valued at \$1.5 billion (9.3%).



Source: Automated Export System, retrieved on February 18, 2020



# Analysis of Exports to the World subject to U.S. Government Filing Requirements

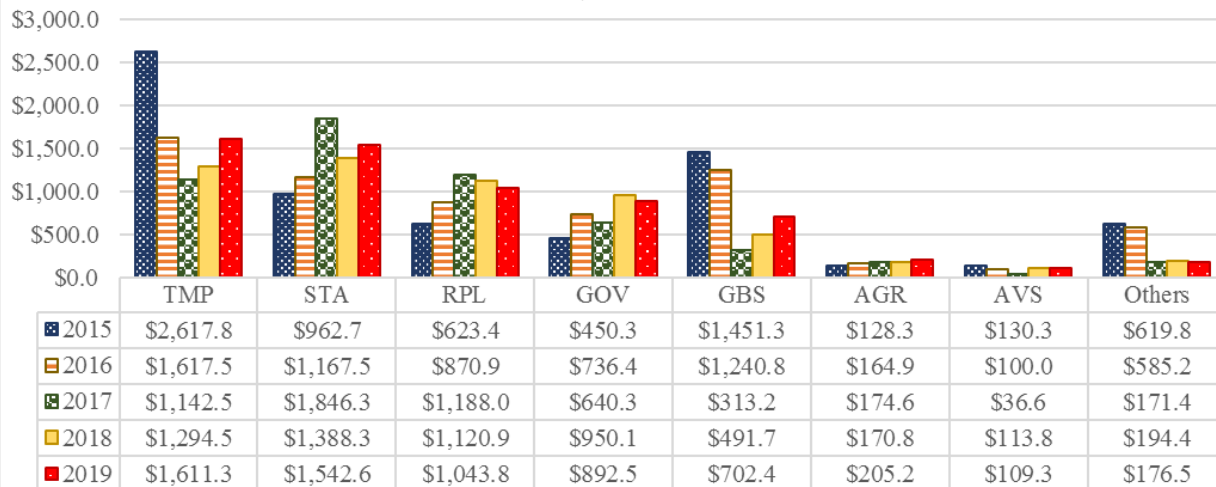
2019

**U.S. Exports to the World under BIS License Exceptions  
Encryption Commodities, Software and Technology  
2015 - 2019  
Smillion**



Source: Automated Export System, February 18, 2020

**U.S. Exports to the World under BIS License Exceptions  
2015-2019  
Smillion**



Source: Automated Export System, February 18, 2020





# Analysis of Exports to the World subject to U.S. Government Filing Requirements

2019

Top Ten ECCNs by Value to World		
<b>LICENSED</b>	#1	9A610 Military Aircraft and Related Commodities
	#2	9A515 Spacecraft and Related Commodities
	#3	9A619 Military Gas Turbine Engines and Related Commodities
	#4	3A611 Military Electronics
	#5	0A606 Ground Vehicles and Related Commodities
	#6	7A103 Instrumentation, Navigation Equip./Systems Not
	#7	9A001 Aero Gas Turbine Engines
	#8	6A001 Acoustic Systems, Equipment and "Components"
	#9	7A003 Inertial Navigation Systems (Gimballed/Strapdown)
	#10	5A002 Systems/Equip./Integrated Circuits for Info Sec

Source: Automaed Export System, retrieved on February 18, 2020

Top Ten ECCNs by Value to World		
<b>EXCEPTIONS</b>	#1	5A002 Systems/Equip./Integrated Circuits for Info Sec
	#2	No ECCN No ECCN is required for License Exceptions TMP*
	#3	9A610 Military Aircraft and Related Commodities
	#4	9A515 Spacecraft and Related Commodities
	#5	3A001 Electronic Components
	#6	3A611 Military Electronics
	#7	EAR99 Items subject to the EAR that are not elsewhere controlled
	#8	9A619 Military Gas Turbine Engines and Related Commodities
	#9	5B002 "Information Security" Test, Inspection and "Production" Equipment
	#10	9A991 Aircraft N.E.S. and Gas Turbine Engines not Controlled by 9A001 or 9A101 ...

Source: Automaed Export System, retrieved on February 18, 2020

\*Note: No ECCN is Required for License Exception TMP per EAR 758.1(g)(2)

Top Ten ECCNs by Value to World		
<b>NLR with ECCN</b>	#1	9A991 Aircraft N.E.S. and Gas Turbine Engines not Controlled by 9A001 or 9A101 ...
	#2	5A992 Equipment not controlled by 5A002
	#3	4A994 Computers Not Controlled By 4A001 or 4A003
	#4	3B991 Other Mfg/Test Equip. Not Controlled By 3B
	#5	5A991 Telecommunication Equip. Not Controlled by 5A001
	#6	3A991 Electronic Devices and "Components" not controlled by 3A001
	#7	7A994 Other Navigation Direction Finding Equip. ... Not Controlled under 7A003
	#8	3B992 Equip. for the Inspection/Testing of Components not Controlled by 3B002
	#9	2B999 Specific Processing Equip., N.E.S.
	#10	3A999 Specific Processing Equip., N.E.S.

Source: Automaed Export System, retrieved on February 18, 2020

NOTE: ECCN Descriptions have been truncated; please review Commerce Control List for Full Description





# Analysis of Exports to the World subject to U.S. Government Filing Requirements

2019

## Top Ten ECCNs by Value to World

LICENSED

#1	9A610	Military Aircraft and Related Commodities
#2	9A619	Military Gas Turbine Engines and Related Commodities
#3	2B230	Pressure Transducers
#4	3A611	Military Electronics
#5	0A606	Ground Vehicles and Related Commodities
#6	0A987	Optical Sighting Devices for Firearms
#7	2B350	Chemical Manufacturing Facilities and Equip.
#8	7A103	Instrumentation, Navigation Equip./Systems Not
#9	0A984	Shotguns, Buckshot, Shotgun Shells
#10	5A002	Systems/Equip./Integrated Circuits for Info Sec

Source: Automaed Export System, retrieved on February 18, 2020

## Top Ten ECCNs by Value to World

EXCEPTIONS

#1	5A002	Systems/Equip./Integrated Circuits for Info Sec
#2	9A610	Military Aircraft and Related Commodities
#3	No ECCN	No ECCN is required for License Exceptions TMP*
#4	EAR99	Items subject to the EAR that are not elsewhere controlled
#5	9A619	Military Gas Turbine Engines and Related Commodities
#6	9A991	Aircraft N.E.S. and Gas Turbine Engines not Controlled by 9A001 or 9A101 ...
#7	3A001	Electronic Components
#8	3A611	Military Electronics
#9	5D002	"Software" as follows (see List of Items Controlled)
#10	5B002	"Information Security" Test, Inspection and "Production" Equipment

Source: Automaed Export System, retrieved on February 18, 2020

## Top Ten ECCNs by Value to World

NLR with ECCN

#1	9A991	Aircraft N.E.S. and Gas Turbine Engines not Controlled by 9A001 or 9A101 ...
#2	5A992	Equipment not controlled by 5A002
#3	5A991	Telecommunication Equip. Not Controlled by 5A001
#4	4A994	Computers Not Controlled By 4A001 or 4A003
#5	7A994	Other Navigation Direction Finding Equip. ... Not Controlled under 7A003
#6	3B991	Other Mfg/Test Equip. Not Controlled By 3B
#7	3A991	Electronic Devices and "Components" not controlled by 3A001
#8	3A992	General Purpose Electronic Equip. Note Controlled by 3A002
#9	3A999	Specific Processing Equip., N.E.S.
#10	2B999	Specific Processing Equip., N.E.S.

Source: Automaed Export System, retrieved on February 18, 2020

NOTE: ECCN Descriptions have been truncated; please review Commerce Control List for Full Description



### III. Licensing to the World subject to US Government Filing Requirements

In 2019, BIS reviewed **32,993** license applications valued at **\$158.8 billion** for exports and re-exports for tangible items, software and technology, a decrease of 2.5% (842 less) from 33,835 in 2018.

- Approved licenses totaled 28,223, a decrease of 2.8% (800 less). The approval rate was 85.5%;
- Denied licenses applications totaled 370, an increase of 40.2% (106 more). The denied rate was 1.1%;
- Return without action (RWA) totaled 4,400, a decrease of 3.3% (148 less). The RWA rate was 13.3%;

In 2019, BIS reviewed 1,320 applications for Deemed Export, an increase of 31.1% (313 more) from 1,007 in 2018.

Overview of BIS License Applications 2015 - 2019										
	2015	2016	2017	2018	2019	% of the total by decision		% of the Grand Total license applications	% change from 2018	Change from 2018
Grand Total license applications	38,372	34,661	36,429	34,842	34,313				-1.5%	-529
Total license applications for deemed export										
Total	1,381	1,476	1,525	1,007	1,320			3.8%	31.1%	313
Approved	1,268	1,377	1,394	846	1,124	85.2%			32.9%	278
Denied	18	13	24	11	3	0.2%			-72.7%	-8
RWA	95	86	107	150	193	14.6%			28.7%	43
Total license applications for tangible items, software and technology										
Total	36,991	33,185	34,904	33,835	32,993			96.2%	-2.5%	-842
Approved	30,980	28,204	29,633	29,023	28,223	85.5%			-2.8%	-800
Denied	311	301	277	264	370	1.1%			40.2%	106
RWA	5,700	4,680	4,994	4,548	4,400	13.3%			-3.3%	-148
							100.0%			

Detailed License Information regarding Tangible items, software and technology									
	2015	2016	2017	2018	2019	% of the total by decision	% of the total for tangible items	% of the Grand Total license applications	% change from 2017
<b>Total license applications for legacy ECCNs</b>	21,331	18,546	19,081	19,470	<b>19,287</b>		<b>58.5%</b>		
Approved	16,968	15,060	15,446	16,047	15,824	82.0%	<b>56.2%</b>	-0.9%	-183
Denied	250	223	220	227	321	1.7%		-1.4%	-223
RWA	4,113	3,263	3,415	3,196	3,142	16.3%		41.4%	94
<b>Total license applications for 600-series items</b>	14,413	13,493	14,582	13,478	<b>12,917</b>		<b>39.2%</b>		
Approved	12,968	12,247	13,134	12,181	11,677	90.4%	<b>37.6%</b>	-4.2%	-561
Denied	23	56	39	29	42	0.3%		-4.1%	-504
RWA	1,422	1,190	1,409	1,268	1,198	9.3%		44.8%	13
<b>Total license applications for 9x515 items</b>	1,247	1,146	1,241	887	<b>789</b>		<b>2.4%</b>		
Approved	1,044	897	1,053	795	722	91.5%	<b>2.3%</b>	-11.0%	-98
Denied	38	22	18	8	7	0.9%		-9.2%	-73
RWA	165	227	170	84	60	7.6%		-12.5%	-1
							<b>100.0%</b>	<b>96.2%</b>	

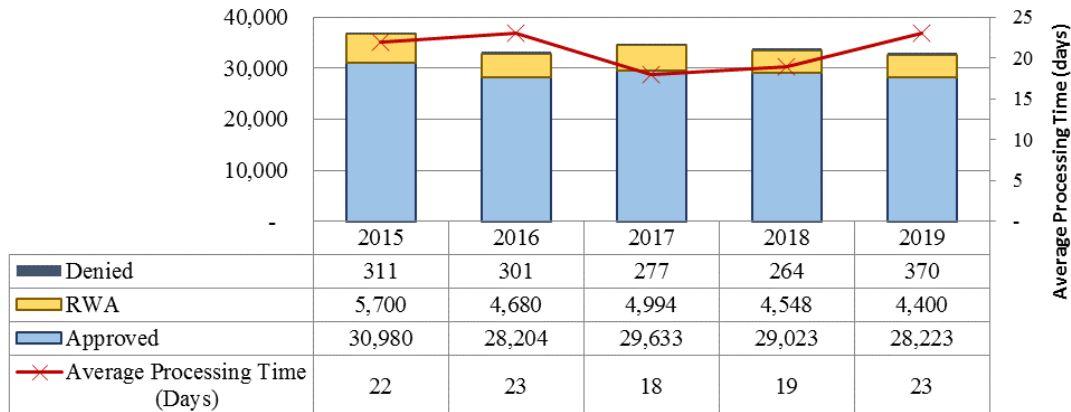
Source: Commerce U.S. Exports Exporter Support System, retrieved on June 9, 2020

Note: to ensure the accuracy of change from 2018, 2018 licensing data are revised based on data retrieved on January 30, 2020.

This revision of 2018 data is not significant, only 31 less for the approved licenses than reported a year ago.



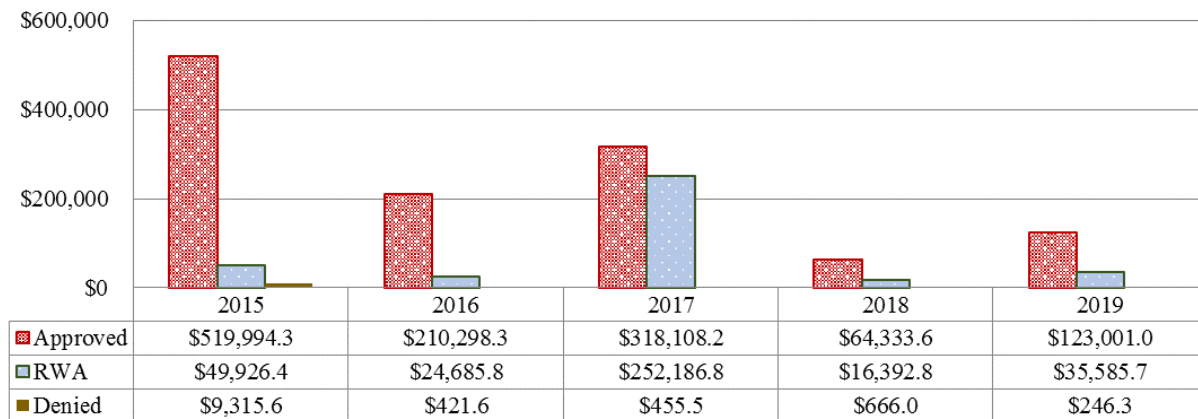
**BIS Licenses for Tangible Items, Software and Technology for the World  
by License Count  
2015 -2019**



Source: Commerce U.S. Exports Exporter Support System,, retrieved on June 9, 2020

**Note: Figures above do not include deemed export applications**

**BIS Licenses for Tangible Items, Software and Technology for the World  
by Value  
2015 - 2019  
Smillion**

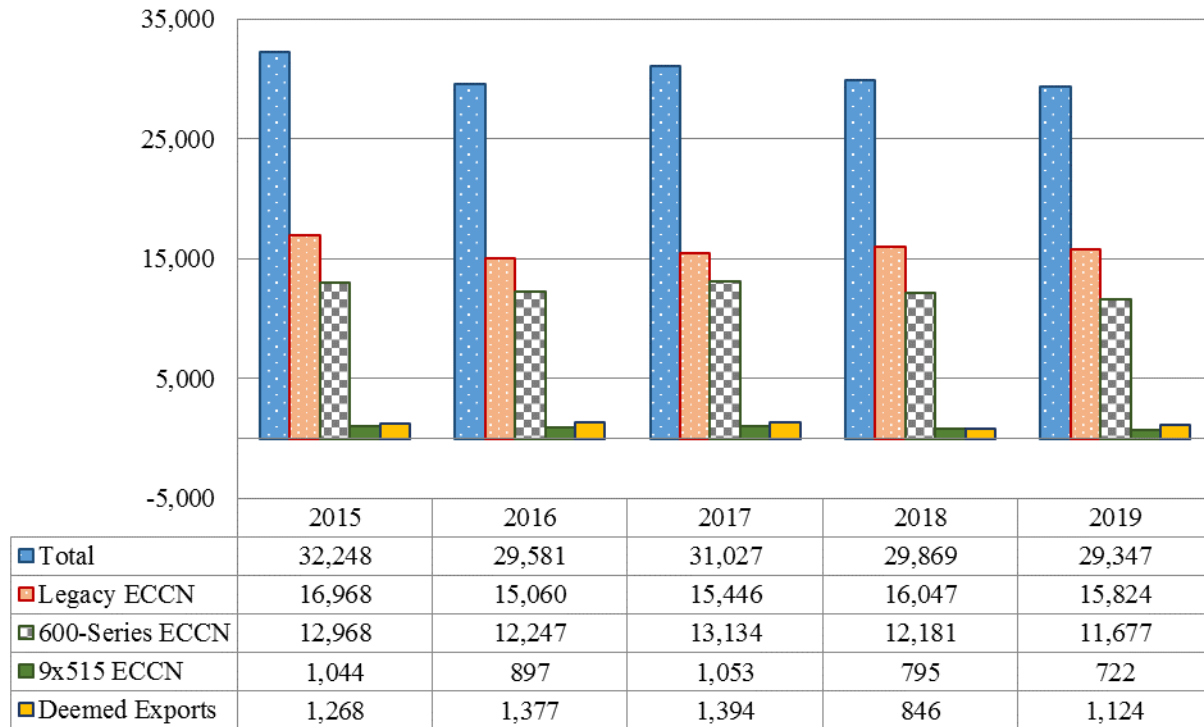


Source: Commerce U.S. Exports Exporter Support System, August 3, 2020

Note: Effective on December 27, 2015, license requirement was removed for Crude petroleum.



### Overview of BIS Approved Licenses 2015-2019

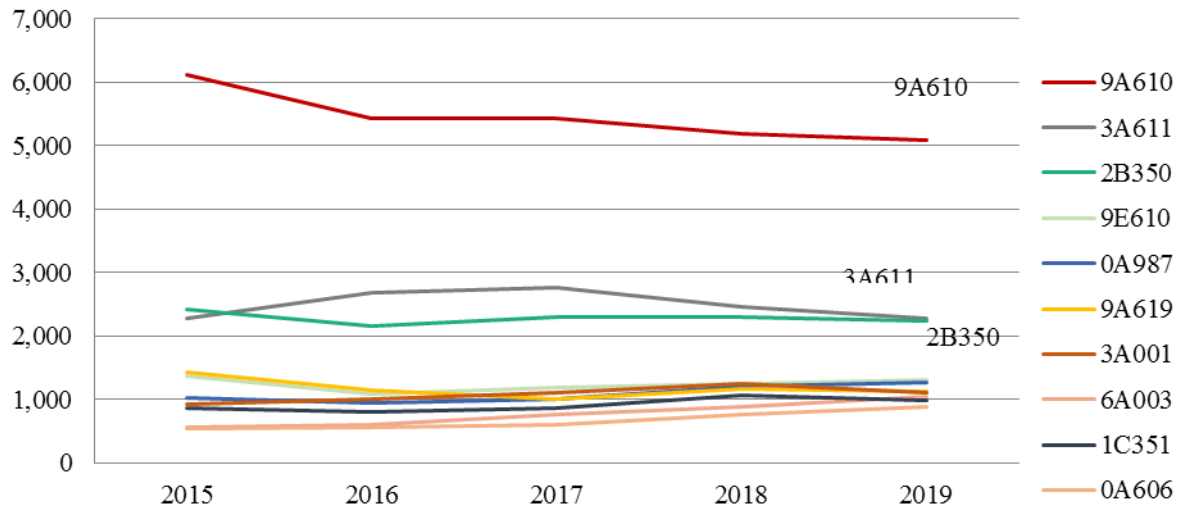


Source: Commerce U.S. Exports Exporter Support System, retrieved on June 9, 2020



In 2019, the top three approved ECCN remained the same as 2018. They were 9A610 for Military aircraft and related commodities (5,078 approvals, 101 less than 2018); and 3A611 for military electronics (2,276 approvals, 189 less); and 2B350 for Chemical manufacturing facilities and equipment (2,230 approvals, 59 less).

**Top Ten Approved ECCNs by Count  
2015 - 2019**



Source: Commerce U.S. Exports Exporter Support System. Retrieved on January 30, 2020

	2015	2016	2017	2018	2019	2018-2019 Δ in Approvals
9A610	6,120	5,419	5,429	5,179	5,078	-101
3A611	2,280	2,681	2,765	2,465	2,276	-189
2B350	2,409	2,159	2,290	2,289	2,230	-59
9E610	1,363	1,084	1,176	1,240	1,309	69
0A987	1,016	948	1,006	1,195	1,257	62
9A619	1,430	1,148	1,001	1,167	1,116	-51
3A001	926	1,002	1,110	1,240	1,113	-127
6A003	564	590	761	884	1,045	161
1C351	855	799	853	1,069	974	-95
0A606	536	564	590	761	884	123



2019 Top Ten ECCNs by License Count for Denied Licenses			
ECCN	Description	Denied Applications	Value \$million
EAR99	Items subject to the EAR that are not elsewhere controlled	70	\$29.6
3A001	Electronic components and specially designed components	50	\$10.8
1A984	Chemical agents, including tear gas; liquid pepper; smoke bombs, etc.	26	\$4.3
0A987	Optical sighting devices for firearms	25	\$5.1
9A610	Military aircraft and related commodities	21	\$31.1
0A982	Law enforcement restrain devices	14	\$0.6
0A985	Discharge type arms and devices to administer electric shock	14	\$32.3
5D002	Software for information security	12	\$2.0
0A984	Shotguns, buckshot shotgun shells	11	\$0.7
0A978	Law enforcement striking weapons, including saps, police batons, side handle batons, tonfas, sjamboks and whips	10	\$0.4
Source: Commerce U.S. Exports Exporter Support System, retrieved on January 30, 2020			

Summary of U.S. Exports to the World Calendar Year 2019				
	CY2018	CY2019	% of Total Exports	Percentage Change from previous year
Total Exports	\$1,665,688,500,000	\$1,643,160,900,000		-1.4%
Subject to ITAR Including VDS	\$40,324,691,789	\$42,518,827,684	2.6%	5.4%
Subject to Other Gov. Agencies Including VDO	\$9,974,382,829	\$9,692,215,853	0.6%	-2.8%
Detailed Summary of EAR-Controlled Exports				
AES License Type Code	Description	Value	Percentage of Total	Percentage Description
C30	BIS License	\$6,284,002,856	99.998%	
VDC	Voluntary Disclosure to Commerce	\$108,621	0.002%	
Total of BIS Licensed Exports		\$6,284,111,477	0.4%	Total BIS Licensed Exports / Total Exports
C35	Limited Value Shipments	\$8,507,813	0.1%	
C36	Country Group B Shipments	\$702,407,098	4.2%	
C37	Civil End Users	\$83,614,532	0.5%	
C38	Restrict Technology & Software (Filing not required)	\$172,973	0.001%	
C40	Temporary Imports, Exports, & Re-Exports	\$1,611,253,779	9.7%	
C41	Servicing & Replacement of Parts & Equipment	\$1,043,765,172	6.3%	
C42	Government & International Organizations	\$892,478,826	5.4%	
C43	Gift Parcels & Humanitarian Donations	\$2,009,039	0.01%	
C44	Technology & Software Unrestricted	\$46,081,960	0.3%	
C45	Baggage	\$572,705	0.003%	
C46	Aircraft & Vessels	\$109,344,103	0.7%	
C50	Encryption Commodities & Software	\$10,369,287,149	62.3%	
C51	Agricultural Commodities	\$205,153,506	1.2%	
C53	Computers	\$12,353,047	0.1%	
C54	Short Supply - Western Red Cedar	\$4,489,570	0.03%	
C55	Short Supply - Crude Oil Samples	\$0	0.0%	
C57	Validated End-User	\$3,007,678	0.02%	
C58	Consumer Products related to Communications to Cuba	\$1,299	0.00%	
C59	Strategic Trade Authorization	\$1,542,587,961	9.3%	
C62	Support for the Cuban People	\$15,683,468	0.1%	
Total of BIS License Exceptions		\$16,652,771,678	1.0%	Total BIS License Exceptions / Total Exports
			72.6%	Total BIS License Exceptions/ Total Subject to BIS License Requirement
Total subject to BIS license requirement (Exports reported under BIS Licenses and BIS License Exceptions)		\$22,936,883,155	1.4%	Total Subject to BIS License requirement / Total Exports
C60 No License Required for .y Subparagraph 600 series		\$318,877,694	0.2%	NLR for .y subparagraph 600 Series/ Total Exports
Total Exports reported with an ECCN under No License Required		\$198,649,299,318	12.09%	Total NLR with an ECCN / Total Exports
Total of NLR with an ECCN & .y 600-series		\$198,968,177,012	12.1%	Total NLR with EAR99 / Total Exports
Total Exports not reporting an ECCN or EAR		\$1,369,044,796,296	83.3%	Total NLR without ECCN / Total Exports
Source: Automated Export System, retrieved on June 8, 2020				