



Office of Technology Evaluation

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Analysis of U.S. Trade with Germany, 2022

Summary

Imports and exports reported by U.S. Census Bureau¹

In 2022, both U.S. exports to Germany and imports from Germany continued to grow for a third year in a row. U.S. exports totaled \$72.6 billion, a decrease of 11.1% (\$7.2 billion), and U.S. imports totaled \$146.6 billion, a decrease of 8.7% (\$11.8 billion). The trade deficit was \$74.1 billion, increasing 6.5% (\$4.5 billion) from 2021.

In 2022, 3.5% of total U.S. global exports of \$2.1 trillion were exported to Germany and 4.5% of total U.S. imports of \$3.2 trillion from all countries were imported from Germany.

In 2022, \$17.3 billion of U.S. exports of transportation equipment to Germany represented 7.1% of U.S. global exports of those commodities.

In 2022, U.S. exports of arms and ammunition to Germany increased significantly from \$129.4 million in 2021 to \$161.0 million, an increase of 24.5%.

In 2022, \$40.0 billion of U.S. imports of machinery and mechanical appliances from Germany constituted 4.3% of the total U.S. imports of those commodities.

BIS export data²

In 2022, U.S. exports to Germany shipped under a BIS license exception totaled \$1.1 billion, an increase of 49.0% from \$708.1 million in 2021.

In 2022, the top license exception utilized under the Export Administration Regulations (EAR) was Encryption commodities, software, and technology (ENC). Exports made with an ENC license exception totaled \$481.8 million, accounting for 45.7% of exports to Germany made under license exceptions. This was followed by Temporary Imports, Exports, Reexports and Transfers (TMP), (\$299.9 million; 28.4%), and Governments, international organizations, international inspections under the Chemical Weapons Convention, and the International Space Station (GOV) (\$124.8 million 11.8%).

¹ Export data in this section refers to trade in “goods” as defined by the U.S. Census: “Merchandise, supplies, raw materials, and products or any other item identified by a Harmonized System (HS) code.” Such data does not capture trade in technologies (e.g., exports made as transmissions or transfers); nor does it capture reexports of US-origin goods or technologies from another country. Nor does it include deemed exports or reexports. <https://www.census.gov/foreign-trade/reference/definitions/index.html#goods>.

² Export data in this section is derived from Automated Export System (AES) filings. Data in this section refers to the export of commodities, software, and technology subject to the Export Administration Regulations (EAR) and regulated as “items.” The data includes exports whether made under a license or a license exception. Such data does not capture trade in technologies (e.g., exports made as transmissions or transfers), nor does it capture reexports of US-origin goods from a third country. Nor does it include deemed exports or deemed reexports.



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Analysis of U.S. Trade with Germany, 2022

BIS licensing data³

In 2022, the number of export license applications for Germany, excluding applications for deemed⁴ exports, amounted to 3.5% of total applications worldwide.

In 2022, for applications involving commodities, software, and technology (excluding deemed exports of technology and source code to German nationals in the U.S. or made as deemed reexports in a third country), BIS reviewed 1,382 export license applications valued at \$34.1 billion for Germany. Of these applications, BIS approved 1,251 applications for Germany valued at \$34.0 billion with an approval rate of 90.5%. BIS denied 5 license applications for Germany. The remainder were returned without action (RWA).

In 2022, BIS reviewed 23 applications for deemed exports involving German nationals, representing 1.6% of total deemed export applications worldwide. Twenty of these applications were approved and three were returned without action (an approval rate of 87.0%).

In 2022, the top approved Export Control Classification Numbers (ECCNs) on licenses for Germany were 9A610 for Military Aircraft and Related Commodities with 230 approvals, followed by 0A606 for Ground vehicles and related commodities with 141 approvals, and 3A611 for Military Electronics with 122 approvals.

In 2022, the average processing time for applications involving Germany was 23 calendar days.

³ Licensing data in this section is drawn from BIS internal systems. Data pertains to applications for export and/or reexport licenses and their associated outcomes. Reexport and export licenses and applications are not differentiated in this report; therefore, references to export licenses or applications should be interpreted as inclusive of reexport licenses and applications as well. All licensing figures include cases of deemed export and/or deemed reexport, unless otherwise noted.

⁴ Deemed exports are defined in 734.13(b) of the EAR: "Any release in the United States of "technology" or source code to a foreign person is a deemed export to the foreign person's most recent country of citizenship or permanent residency."

<https://www.ecfr.gov/current/title-15/subtitle-B/chapter-VII/subchapter-C/part-734/section-734.13>



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Analysis of U.S. Trade with Germany, 2022

In 2022, of \$72.6 billion in U.S. exports to Germany, the top commodity sectors were transportation equipment (23.8% of the total exports to the country), chemicals, plastics, rubber, leather goods (20.2% of such total) and machinery and mechanical appliances (19.0% of such total).

In 2022, of \$146.6 billion in U.S. imports from Germany, the top commodity sectors were machinery and mechanical appliances (27.3% of the total U.S imports from the country), chemicals, plastics, rubber, and leather goods (23.0% of such total) and transportation equipment (20.9% of such total).

Imports from Germany By Sector	Germany Commodity Trade 2022	US Exports to Germany by Sector
\$146,630,333,631	Total Value All Commodities	\$72,553,407,512
1.8%	Agriculture Products (Chapters 01-24)	3.2%
0.4%	Oils, Minerals, Lime, Cement (Chapters 25-27)	7.1%
23.0%	Chemicals, Plastics, Rubber, Leather Goods (Chapters 28-43)	20.2%
1.8%	Wood, Cork, Paper, Printed Books (Chapters 44-49)	1.2%
0.9%	Textiles, Footwear, Headgear (Chapters 50-67)	0.5%
3.3%	Stone, Glass, Metals, Pearls (Chapters 68-71)	7.6%
5.1%	Base Metals, Iron, Steel, Tools (Chapters 72-83)	2.5%
27.3%	Machinery & Mechanical Appliances (Chapters 84-85)	19.0%
20.9%	Transportation Equipment (Chapters 86-89)	23.8%
8.4%	Optical, Measuring, Medical, Other Instruments (Chapters 90-92)	10.0%
0.2%	Arms & Ammunition (Chapter 93)	0.2%
0.9%	Miscellaneous Manufactured Items (Chapters 94-96)	0.6%
0.6%	Art, Collectors' Pieces, Antiques (Chapter 97)	0.9%
4.3%	Special Classification Items (Chapter 98)	3.3%
1.1%	Temporary Legislation (Chapter 99)	0.0%

Source: U.S. Census Bureau USA Trade Portal August 30, 2023

In 2022, 3.5% of total U.S. global exports of \$2.1 trillion were exported to Germany and 4.5% of total U.S. imports of \$3.2 trillion from all countries were imported from Germany.

Exports

In 2022, \$17.3 billion of U.S. exports of transportation equipment to Germany represented 7.1% of U.S. global exports of those commodities. Additionally, \$14.6 billion of exports of chemicals, plastics, rubber, and leather goods represented 4.3%, and \$13.8 billion of machinery and mechanical appliances represented 3.2% of U.S. global exports of those commodities.

Imports

In 2022, \$40.0 billion of U.S. imports of machinery and mechanical appliances from Germany constituted 4.3% of the total U.S. imports of those commodities. Additionally, \$33.7 billion of imports of chemicals, plastics, rubber, and leather goods represented 7.2% and the \$30.6 billion of imports of transportation equipment represented 8.6% of the global U.S. imports of those commodities.

U.S. Exports to Germany in Arms and Ammunition

In 2022, U.S. exports of arms and ammunition to Germany increased significantly from \$129.4 million in 2021 to \$161.0 million, an increase of 24.5%.

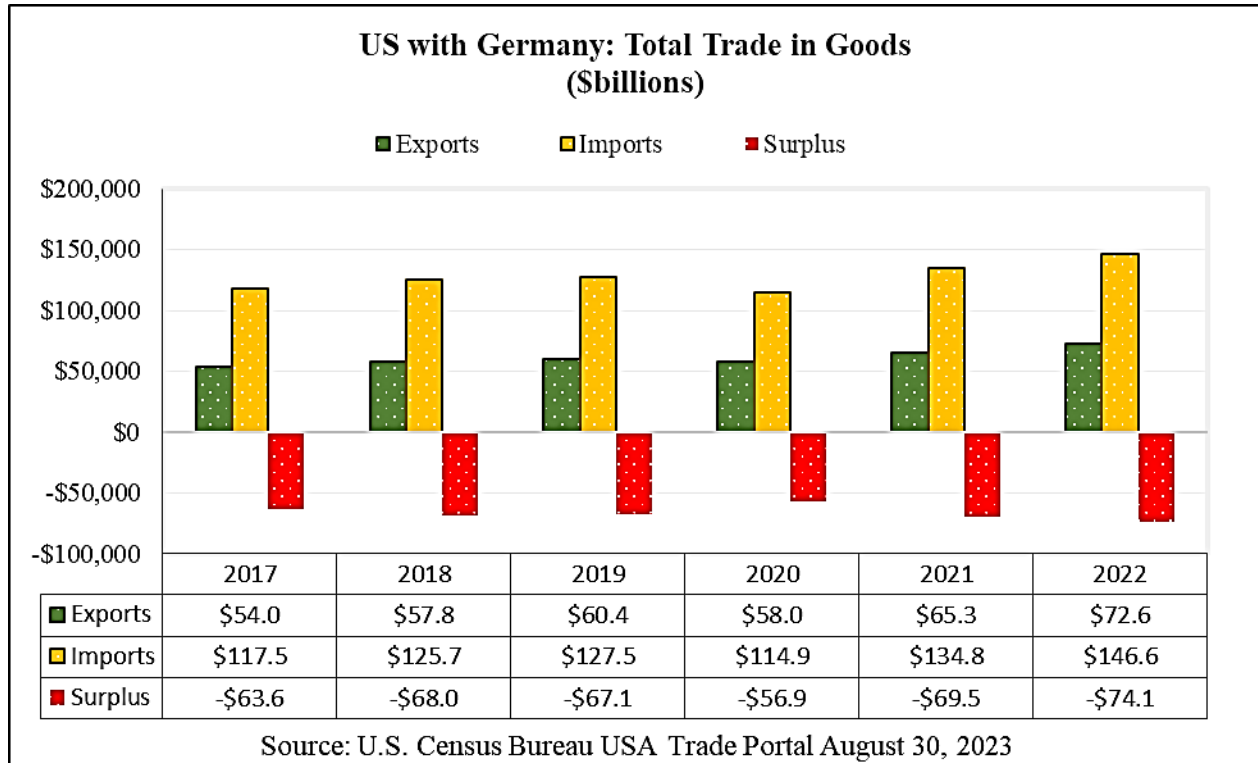


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Analysis of U.S. Trade with Germany, 2022

I. Total U.S. trade in goods with Germany⁵

In 2022, both U.S. exports to Germany and imports from Germany continued to grow for a third year in a row. U.S. exports totaled \$72.6 billion, an increase of 11.1% (\$7.2 billion), and U.S. imports totaled \$146.6 billion, an increase of 8.7% (\$11.8 billion). The trade deficit was \$74.1 billion, increasing 6.5% (\$4.5 billion) from 2021.



In 2022, the level of U.S. exports to Germany and U.S. imports from Germany in goods, merchandise, and commodities as well as the trade deficit with Germany all exceeded the prior five-year average level by value (not adjusted for inflation).

	2017	2018	2019	2020	2021	2022	2017-2021 Average
EXPORTS	\$53,965.4	\$57,757.6	\$60,403.9	\$58,001.6	\$65,307.9	\$72,553.4	\$59,087.3
Δvalue	--	\$3,792.2	\$2,646.3	-\$2,402.3	\$7,306.3	\$7,245.5	
Δpct	--	7.0%	4.6%	-4.0%	12.6%	11.1%	
IMPORTS	\$117,539.2	\$125,714.4	\$127,454.9	\$114,896.8	\$134,847.0	\$146,630.3	\$124,090.5
Δvalue	--	\$8,175.3	\$1,740.4	-\$12,558.0	\$19,950.2	\$11,783.3	
Δpct	--	7.0%	1.4%	-9.9%	17.4%	8.7%	
BALANCE	(\$63,573.7)	(\$67,956.8)	(\$67,050.9)	(\$56,895.2)	(\$69,539.1)	(\$74,076.9)	(\$65,003.1)
Δvalue	--	(\$4,383.1)	\$905.8	\$10,155.8	(\$12,643.9)	(\$4,537.9)	
Δpct	--	6.9%	-1.3%	-15.1%	22.2%	6.5%	

Values in Millions of U.S. Dollars. Source: U.S. Census Bureau USA Trade Portal August 30, 2023

⁵ Export data in this section refers to trade in “goods” as defined by the U.S. Census: “Merchandise, supplies, raw materials, and products or any other item identified by a Harmonized System (HS) code.” Such data does not capture trade in technologies (e.g., exports made as transmissions or transfers); nor does it capture reexports of US-origin goods or technologies from another country. Nor does it include deemed exports or reexports. <https://www.census.gov/foreign-trade/reference/definitions/index.html#goods>.



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Analysis of U.S. Trade with Germany, 2022

II. U.S. Exports to Germany Subject to BIS Export Controls⁶

In 2022, of the \$72.6 billion⁷ in U.S. exports to Germany:

- \$239.6 million, or 0.3% of the total value, were exported under a BIS license;
- \$1.1 billion, or 1.5% of the total value, were exported under a BIS license exception;
- \$11.8 billion, or 16.2%, were exported under No License Required (NLR) reporting an ECCN⁸;
- \$14.8 million, or 0.02%, were exported under NLR for 600-series .y subparagraph items⁹;
- \$0.6 million, or 0.0008%, were exported under NLR for 0A501 .y subparagraph Firearms items.¹⁰

For comparison, globally:

- 0.4% of U.S. exports by dollar value were exported under a BIS license;
- 0.8% were exported under a BIS license exception;
- 9.6% of exports were exported under NLR reporting an ECCN;
- 0.02% of exports were exported under NLR for 600-series .y subparagraph items;
- 0.001% of exports were exported under NLR for 0A501 .y subparagraph Firearms items.

Germany				
		2020	2021	2022
	Licensed by BIS	\$206.3	\$192.7	\$239.6
	BIS License Exceptions	\$550.0	\$708.1	\$1,054.8
	NLR reporting an ECCN [8]	\$9,525.1	\$10,768.8	\$11,754.3
	NLR DY6 600-Series .y subparagraph [9]	\$9.0	\$8.5	\$14.8
	NLR YFA 0A501 .y subparagraph firearms [10]	\$0.4	\$1.1	\$0.6
Values in Millions of U.S. Dollars. Source: Automated Export System February 15, 2023				

Reasons for Control	Chemical and Biological Weapons			Nuclear Nonproliferation		National Security		Missile Tech	Regional Stability		Firearms Convention	Crime Control			Anti-Terrorism	
	CB:1	CB:2	CB:3	NP:1	NP:2	NS:1	NS:2	MT:1	RS:1	RS:2	FC:1	CC:1	CC:2	CC:3	AT:1	AT:2
Germany	X					X		X	X							

⁶ Unless otherwise specified, export data in this section is derived from Automated Export System (AES) filings. Data in this section refers to the export of commodities, software, and technology subject to the Export Administration Regulations (EAR) and regulated as “items.” The data includes exports whether made under a license or a license exception. Such data does not capture trade in technologies (e.g., exports made as transmissions or transfers), nor does it capture reexports of US-origin goods from a third country. Nor does it include deemed exports or deemed reexports.

⁷ This figure is reported by the U.S. Census Bureau. “Total exports” refers to “goods” as defined by the U.S. Census: “Merchandise, supplies, raw materials, and products or any other item identified by a Harmonized System (HS) code.” Such data does not capture trade in technologies (e.g., exports and imports made as transmissions or transfers), nor does it capture reexports of US-origin goods from another country <https://www.census.gov/foreign-trade/reference/definitions/index.html#goods>.

⁸ Line items reported in AES as license type C33 with an ECCN. Excludes items classified as EAR99.

⁹ Line items reported in AES as 9x515 subparagraph .y or “600 series”, and shipped under license type C60 and license number DY6.

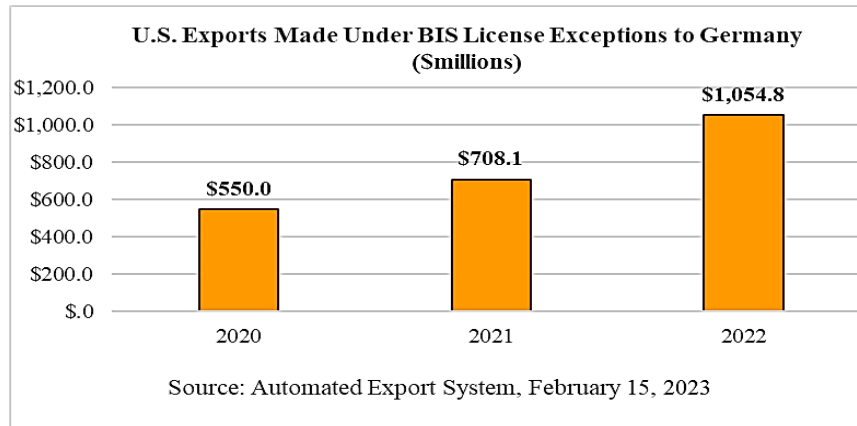
¹⁰ Line items reported in AES as 0A501 subparagraph .y and shipped under license type code C63, and license number YFA.



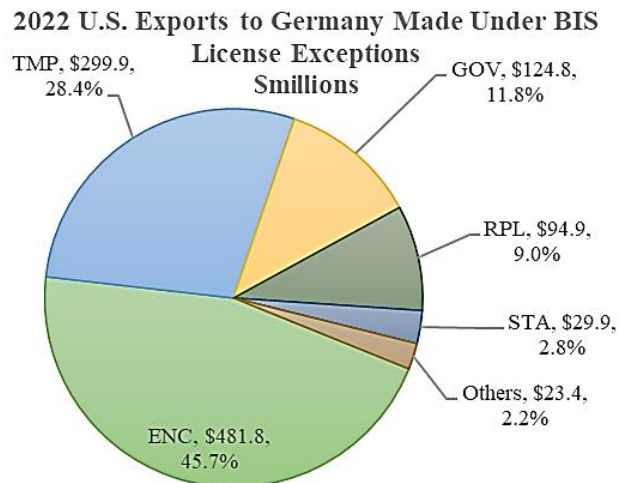
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Analysis of U.S. Trade with Germany, 2022

In 2022, U.S. exports to Germany made under a BIS license exception totaled \$1.1 billion, an increase of 49.0% from \$708.1 million in 2021.



In 2022, the top license exception, Encryption Commodities & Software (ENC), totaled at \$481.8 million (45.7% of all license exceptions for Germany), followed by Temporary Imports, Exports, Reexports and Transfers (TMP), totals \$300.0 million (28.4%), and Governments, international organizations, international inspections under the Chemical Weapons Convention, and the International Space Station (GOV), totaled at \$124.8 million (11.8%).



Source: Automated Export System, February 15, 2023

STA: Strategic Trade Authorization

ENC: Encryption commodities, software, and technology

GOV: Governments, international organizations, international inspections under the Chemical Weapons Convention, and the International Space Station

RPL: Servicing and replacement of parts and equipment

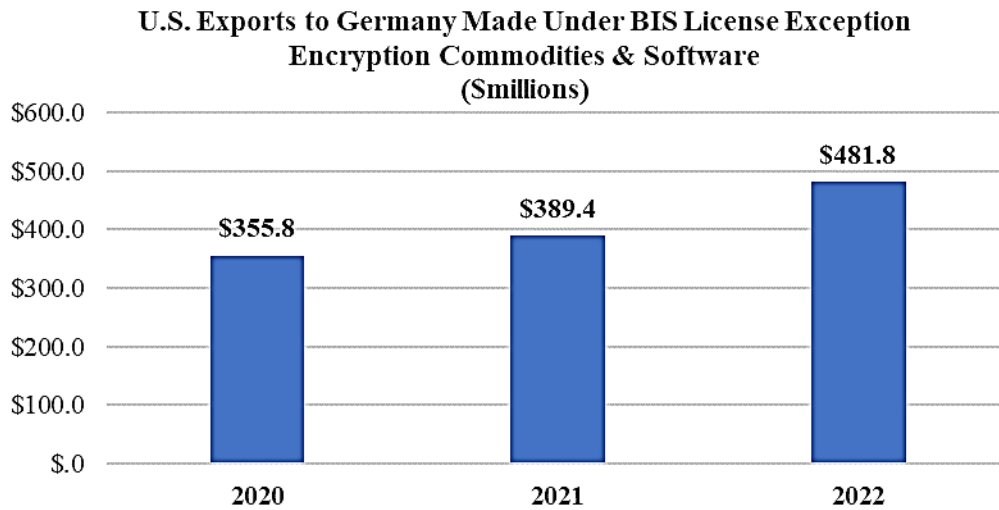
TMP: Temporary imports, exports, reexports, and transfers (in-country)



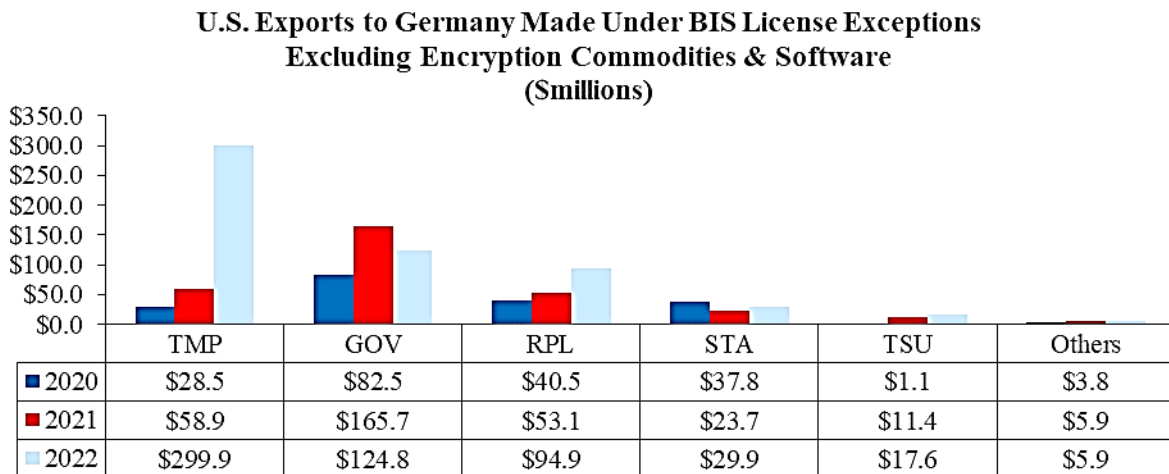
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Analysis of U.S. Trade with Germany, 2022

In 2022, U.S. exports to Germany shipped under BIS license exception Encryption Commodities and Software (ENC) totaled \$481.8 million, a 23.7% increase from \$389.4 million in 2021.



Source: Automated Export System, February 15, 2023



Source: Automated Export System, February 15, 2023



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Analysis of U.S. Trade with Germany, 2022

LICENSED	Top ECCNs Reported on Exports to Germany, by aggregate shipment value (\$millions)		
	#1	7A103	Instrumentation, navigation equipment and systems, other than those co
	#2	9A610	Military Aircraft and Related Commodities, Other Than Those Enumerated
	#3	0A505	Ammunition as follows (see List of Items Controlled).
	#4	3A611	Military electronics, as follows (see List of Items Controlled).
	#5	0A501	Firearms (except 0A502 shotguns) and related commodities as follows (s
	#6	0A503	Discharge type arms; non-lethal or less-lethal grenades and projectile
	#7	3A001	Electronic items as follows (see List of Items Controlled).
	#8	9A619	Military gas turbine engines and related commodities (see List of Item
	#9	0A606	Ground vehicles and related commodities, as follows (see List of Items
	#10	7A003	'Inertial Measurement Equipment or Systems', Having any of the Followi

Note: ECCN descriptions have been truncated: please review Commerce Control List for full description

EXCEPTIONS	Top ECCNs Reported on Exports to Germany, by aggregate shipment value (\$millions)		
	#1	5A002	"Information security" systems, equipment and "components," as follows
	#2	9A991	"Aircraft," n.e.s., and gas turbine engines not controlled by 9A001 or
	#3	9A610	Military Aircraft and Related Commodities, Other Than Those Enumerated
	#4	3A611	Military electronics, as follows (see List of Items Controlled).
	#5	9A515	"Spacecraft" and related commodities, as follows (see List of Items Co
	#6	6A001	Acoustic systems, equipment and "components," as follows (see List of
	#7	1A613	Armored and protective "equipment" and related commodities, as follows
	#8	EAR99	Items subject to the EAR that are not elsewhere specified in this CCL
	#9	9A619	Military gas turbine engines and related commodities (see List of Item
	#10	5A992	Equipment not controlled by 5A002 (see List of Items Controlled).

Note: ECCN descriptions have been truncated: please review Commerce Control List for full description

NLR with ECCN	Top ECCNs Reported on Exports to Germany, by aggregate shipment value (\$millions)		
	#1	9A991	"Aircraft," n.e.s., and gas turbine engines not controlled by 9A001 or
	#2	5A992	Equipment not controlled by 5A002 (see List of Items Controlled).
	#3	7A994	Other navigation direction finding equipment, airborne communication e
	#4	3B991	Equipment not controlled by 3B001 for the manufacture of electronic "p
	#5	5A991	Telecommunication equipment, not controlled by 5A001 (see List of Item
	#6	3A999	Specific Processing Equipment, n.e.s., as Follows (See List of Items C
	#7	6A998	Radar systems, equipment and major "components," n.e.s., and "speciall
	#8	3A991	Electronic devices, and "components" not controlled by 3A001.
	#9	1C210	"Fibrous or filamentary materials" or prepregs, other than those contr
	#10	6A005	"Lasers," "components" and optical equipment, as follows (see List of

Note: ECCN descriptions have been truncated: please review Commerce Control List for full description

Source: Automated Export System



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Analysis of U.S. Trade with Germany, 2022

LICENSED	Top ECCNs Reported on Exports to Germany, by shipment count [1]		
	#1	0A501	Firearms (except 0A502 shotguns) and related commodities as follows (s
	#2	9A610	Military Aircraft and Related Commodities, Other Than Those Enumerated
	#3	7A103	Instrumentation, navigation equipment and systems, other than those co
	#4	3A611	Military electronics, as follows (see List of Items Controlled).
	#5	0A505	Ammunition as follows (see List of Items Controlled).
	#6	3A001	Electronic items as follows (see List of Items Controlled).
	#7	0A606	Ground vehicles and related commodities, as follows (see List of Items
	#8	9A619	Military gas turbine engines and related commodities (see List of Item
	#9	0A503	Discharge type arms; non-lethal or less-lethal grenades and projectile
	#10	7A002	Gyros or Angular Rate Sensors, Having any of the Following, and "Speci

Note: ECCN descriptions have been truncated: please review Commerce Control List for full description

EXCEPTIONS	Top ECCNs Reported on Exports to Germany, by shipment count [1]		
	#1	5A002	"Information security" systems, equipment and "components," as follows
	#2	9A610	Military Aircraft and Related Commodities, Other Than Those Enumerated
	#3	EAR99	Items subject to the EAR that are not elsewhere specified in this CCL
	#4	9A991	"Aircraft," n.e.s., and gas turbine engines not controlled by 9A001 or
	#5	3A611	Military electronics, as follows (see List of Items Controlled).
	#6	0A614	Military training "equipment," as follows (see List of Items Controlle
	#7	6A003	Cameras, Systems or Equipment, and "Components" Therefor, as Follows (
	#8	0A606	Ground vehicles and related commodities, as follows (see List of Items
	#9	9A604	Commodities related to launch vehicles, missiles, and rockets (see Lis
	#10	9A515	"Spacecraft" and related commodities, as follows (see List of Items Co

Note: ECCN descriptions have been truncated: please review Commerce Control List for full description

NLR with ECCN	Top ECCNs Reported on Exports to Germany, by shipment count [1]		
	#1	9A991	"Aircraft," n.e.s., and gas turbine engines not controlled by 9A001 or
	#2	3B991	Equipment not controlled by 3B001 for the manufacture of electronic "p
	#3	7A994	Other navigation direction finding equipment, airborne communication e
	#4	5A991	Telecommunication equipment, not controlled by 5A001 (see List of Item
	#5	5A992	Equipment not controlled by 5A002 (see List of Items Controlled).
	#6	3A999	Specific Processing Equipment, n.e.s., as Follows (See List of Items C
	#7	2B999	Specific Processing Equipment, n.e.s., as Follows (See List of Items C
	#8	3A991	Electronic devices, and "components" not controlled by 3A001.
	#9	3A992	General purpose electronic equipment not controlled by 3A002.
	#10	3B992	Equipment not controlled by 3B002 for the inspection or testing of ele

Note: ECCN descriptions have been truncated: please review Commerce Control List for full description

[1] Source: Automated Export System. Shipment count is the number of distinct AES filings containing the given ECCN.



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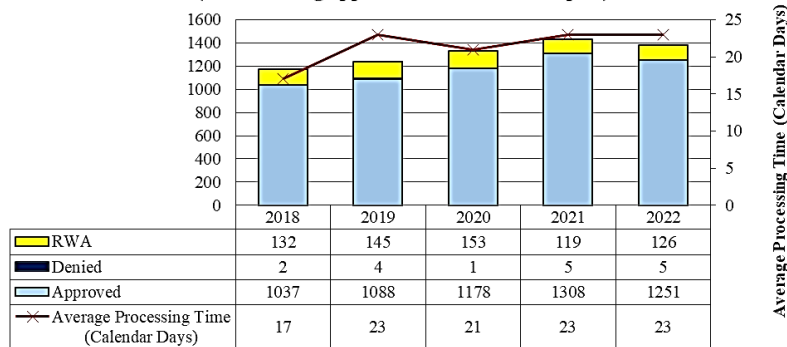
Analysis of U.S. Trade with Germany, 2022

III. BIS Licensing Involving Germany¹¹

In 2022, the number of export license applications for Germany, excluding applications for deemed exports and reexports, amounted to 3.5% of total applications worldwide.

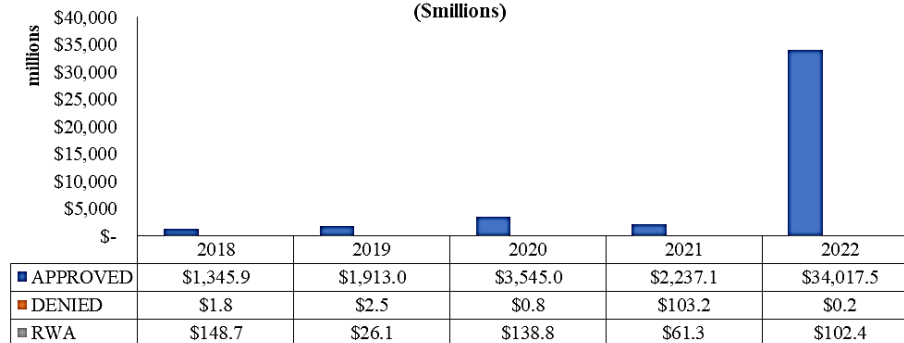
In 2022, for applications involving commodities, software, and technology (excluding deemed exports and reexports of technology and source code to German nationals in the U.S. or in a third country), BIS reviewed 1,382 export/re-export license applications valued at \$34.1 billion for Germany, compared to 39,045 applications worldwide valued at \$335.9 billion. BIS denied five license applications. BIS approved 1,251 applications valued at \$34.0 billion with an approval rate of 90.5%, compared to 34,068 approvals worldwide and valued at \$226.1 billion with an approval rate of 87.3%.

Processing Time and Outcomes of License Applications for Export of Controlled Commodities, Software, & Technology to Germany (Not including applications for deemed export)



Source: Commerce U.S. Exporter Support System, February 15, 2023

Values of License Applications for Export of Controlled Commodities, Software, & Technology to Germany, by Outcome (Smillions)



¹¹ Licensing data in this section is drawn from BIS internal systems. Data pertains to applications for export and/or reexport licenses and their associated outcomes. Reexport and export licenses and applications are not differentiated in this report; therefore, references to export licenses or applications should be interpreted as inclusive of reexport licenses and applications as well. All licensing figures include cases of deemed exports and/or deemed reexports, unless otherwise noted.



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Analysis of U.S. Trade with Germany, 2022

In 2022, BIS reviewed 23 applications for deemed exports or reexports involving German nationals, representing 1.6% of total deemed export or reexport applications worldwide. BIS approved 20 of these applications and returned three without action (an approval rate of 87.0%).

In the last five years, there were no denials for applications for deemed exports or reexports involving German nationals.

Count of License Applications for Deemed Export, By Outcome, For Nationals of Germany						
2018-2022						
Year	APPROVED	DENIED	RWA	Germany Total	Worldwide Total	Germany Total/World Total
2018	10	0	2	12	969	1.2%
2019	8	0	1	9	1,308	0.7%
2020	11	0	4	15	1,207	1.2%
2021	13	0	0	13	924	1.4%
2022	20	0	3	23	1,457	1.6%

Source: Commerce U.S. Exporter Support System, February 15, 2023

In 2022, the top approved ECCNs on licenses for Germany were 9A610 for Military Aircraft and Related Commodities with 230 approvals, followed by 0A606 for Ground vehicles and related commodities with 141 approvals, and 3A611 for Military Electronics with 122 approvals.

Top ECCNs Approved for Export to Germany, by Number of Licenses				2018	2019	2020	2021	2022	% of worldwide
APPROVED	#1	9A610	Military Aircraft and Related Commodities, Other Than Those Enumerated	212	210	215	219	230	4.6%
	#2	0A606	Ground vehicles and related commodities, as follows (see List of Items	125	151	159	209	141	19.3%
	#3	3A611	Military electronics, as follows (see List of Items Controlled).	101	147	101	150	122	5.8%
	#4	0A501	Firearms (except 0A502 shotguns) and related commodities as follows (s	-	-	121	98	99	1.8%
	#5	3A001	Electronic items as follows (see List of Items Controlled).	105	119	96	87	69	5.4%

Source: Commerce U.S. Exporter Support System, February 15, 2023

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

ECCNs on Denied License Applications for Export to Germany				2022	% of World Total
Denied	#1	1E001	"Technology" according to the General Technology Note for the "develop	1	100.0%
	#2	1E350	"Technology" according to the "General Technology Note" for facilities	1	100.0%
	#3	1E351	"Technology" according to the General Technology Note for the disposal	1	100.0%
	#4	2E001	"Technology" according to the General Technology Note for the "develop	1	100.0%
	#5	2E002	"Technology" according to the General Technology Note for the "product	1	100.0%

Source: Commerce U.S. Exporter Support System, February 15, 2023

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

In 2022, the average processing time for applications involving Germany was 23 calendar days.



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Analysis of U.S. Trade with Germany, 2022

Summary of U.S. Exports to Germany Calendar Year 2022				
	2021	2022	% change	% of total exports 2022
Total Exports [1]	\$ 65,307,924,357	\$ 72,553,407,512	11.1%	
	2021	2022	% change	% of total exports 2022
EAR Controlled Exports [2]				
C30 - Licenses	\$ 192,629,436	\$ 239,591,440	24.4%	0.3%
	2021	2022	% of total license exceptions 2022	% of total exports 2022
License Exceptions [2]				
C50 - ENC	\$ 389,424,468	\$ 481,809,665	45.7%	0.7%
C40 - TMP	\$ 58,871,803	\$ 299,898,912	28.4%	0.4%
C42 - GOV	\$ 165,684,610	\$ 124,842,259	11.8%	0.2%
C41 - RPL	\$ 53,083,899	\$ 94,942,715	9.0%	0.1%
C59 - STA	\$ 23,734,238	\$ 29,852,762	2.8%	0.04%
C44 - TSU	\$ 11,408,208	\$ 17,562,071	1.7%	0.02%
C36 - GBS	\$ 3,463,630	\$ 3,170,967	0.3%	0.004%
C46 - AVS	\$ 1,237,385	\$ 1,622,773	0.2%	0.002%
C35 - LVS	\$ 358,242	\$ 428,936	0.04%	0.0006%
C43 - GFT	\$ 245,582	\$ 363,078	0.03%	0.0005%
C53 - APP	\$ 210,353	\$ 254,654	0.02%	0.0004%
C38 - TSR	\$ 380,917	\$ 25,868	0.002%	0.00004%
C45 - BAG	\$ 19,765.00	\$ 4,994.00	0.0005%	0.00001%
Subtotal License Exceptions	\$ 708,123,100.00	\$ 1,054,779,654.00		1.5%
Total of Licensed Exports and License Exceptions	\$ 900,806,577.00	\$ 1,294,371,094.00		1.8%
	2021	2022	% of total NLR 2022	% of total exports 2022
NLR [2]				
C33 - NLR with an ECCN	\$ 10,768,823,893	\$ 11,754,316,925	99.9%	16.2%
C60 - NLR for 600-series .y subparagraph	\$ 8,548,712	\$ 14,781,354	0.1%	0.02%
C63 - NLR for 0A501 .y subparagraph Firearms	\$ 1,132,558	\$ 607,135	0.005%	0.0008%
Subtotal NLR	\$ 10,778,505,163	\$ 11,769,705,414		16.2%

[1] Source: U.S. Census. Refers to trade in “goods” as defined by the U.S. Census: “Merchandise, supplies, raw materials, and products or any other item identified by a Harmonized System (HS) code.” Such data does not capture trade in technologies (e.g., exports made as transmissions or transfers); nor does it capture reexports of US-origin goods or technologies from another country. Nor does it include deemed exports or reexports.

[2] Source: Automated Export System (AES) filings.