

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM SD
Specialized Disclosure Report



Amkor Technology, Inc.
(Exact name of registrant as specified in its charter)

Delaware

000-29472

23-1722724

(State or other jurisdiction of incorporation or organization)

(Commission File Number)

(IRS Employer Identification No.)

2045 East Innovation Circle, Tempe, AZ

85284

(Address of principal executive offices)

(Zip Code)

Gil C. Tily

(480) 821-5000

(Name and telephone number, including area code, of the person to contact in connection with this report)

Check the appropriate box to indicate the rule pursuant to which this form is being filed, and provide the period to which the information in this form applies:

Rule 13p-1 under the Securities Exchange Act (17 CFR 240.13p-1) for the reporting period from January 1 to December 31, 2016.

Section 1 - Conflict Minerals Disclosure

Item 1.01 Conflict Minerals Disclosure and Report

Conflict Minerals Disclosure

Amkor Technology, Inc. ("Amkor") conducted in good faith, a Reasonable Country of Origin Inquiry (RCOI) on the source of its Conflict Minerals for 2016. Our RCOI was designed to determine whether the Conflict Minerals (tantalum, tin, tungsten, and gold) we used when performing semiconductor packaging services originated from the Democratic Republic of the Congo or an adjoining country (the "Covered Countries") or are from recycled or scrap sources.

We conducted our RCOI with our direct suppliers using the Conflict Minerals Reporting Template (CMRT), a supply chain survey tool provided by the Conflict-Free Sourcing Initiative (CFSI), an industry group that works to address Conflict Minerals issues within supply chains. The CMRT requests direct suppliers to identify the smelters, refiners, and countries of origin of the Conflict Minerals in their products. We relied primarily on responses received from our direct suppliers to identify sources of Conflict Minerals and information provided by the CFSI.

Based on the responses to our RCOI, we know or have reason to believe that a portion of the Conflict Minerals we use originated or may have originated from the Covered Countries or may not be solely from recycled or scrap sources.

In accordance with Rule 13p-1 under the Securities Exchange Act of 1934, Amkor has filed this Specialized Disclosure Form (Form SD) and the attached Conflict Minerals Report. Both reports are available on the "Investors" tab of www.amkor.com under "SEC filings". This Form SD and Exhibit 1.01 contain references to our website. The information on this website is not incorporated by reference into this Form SD or Exhibit 1.01.

Item 1.02 Exhibit

As an exhibit to this Form SD, we provide the Conflict Minerals Report as required by Item 1.01.

Section 2 - Exhibits

Item 2.01 Exhibits

Exhibit 1.01 - Conflict Minerals Report, for the reporting period January 1, 2016 to December 31, 2016, as required by Items 1.01 and 1.02 of this Form.

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the duly authorized undersigned.

Amkor Technology, Inc.

(Registrant)

/s/ Gil C. Tily

Gil C. Tily, Executive Vice President, Chief Administrative
Officer, General Counsel and Corporate Secretary

May 23, 2017

Date



Conflict Minerals Report of Amkor Technology, Inc.

All information contained in this Conflict Minerals Report (the "Report"), other than statements of historical fact, constitute forward-looking statements within the meaning of federal securities laws. These forward-looking statements involve a number of risks, uncertainties, assumptions and other factors including, among other things, our customers' requirements to use certain suppliers, our suppliers' responsiveness and cooperation with our due diligence efforts, our ability to implement improvements in our conflict minerals program, changes to the sourcing status of smelters and refiners in our supply chain, and our ability to identify and mitigate related risks in our supply chain. For a more complete discussion of these and other risk factors, see our other filings with the Securities and Exchange Commission ("SEC"), including our Annual Report on Form 10-K for the year ended December 31, 2016. We undertake no obligation to review or update any forward-looking statements to reflect events or circumstances occurring after filing this Report with the SEC.

This Conflict Minerals Report (CMR) of Amkor Technology, Inc. ("Amkor") for calendar year 2016 was prepared in accordance with Rule 13p-1 under the Securities Exchange Act of 1934.

Business Overview

Amkor is one of the world's leading providers of outsourced semiconductor packaging and test services. Packaging is the processing of bare die, a small block of semiconducting material on which a functional circuit is fabricated, to facilitate electrical connections, heat dissipation and protection of the die. Some of the materials we use when providing packaging services contain tantalum, tin, tungsten, or gold ("Conflict Minerals"). Test services involve checking that a packaged die meets its design and performance specifications and do not involve the use of Conflict Minerals.

The mineral supply chain that provides us with Conflict Minerals is divided into upstream and downstream entities. An upstream entity is between the mine of origin and the smelter or refiner and includes miners, local traders, exporters from the country of mineral origin, international concentrate traders, mineral reprocessors, smelters, and refiners. A downstream entity is between the smelter or refiner and the retailer and includes metal traders and exchanges, component manufacturers, product manufacturers, original equipment manufacturers, and retailers.

Amkor is a downstream entity and is typically several tiers removed from the smelter or refiner and mineral origin. We have limited visibility beyond our direct suppliers to entities within the supply chain. Therefore, we rely principally on our direct suppliers to provide us with sourcing information.

Due Diligence Overview

We undertook due diligence on the source and chain of custody of the Conflict Minerals we use when providing packaging services. We conducted a significant portion of our due diligence using tools and relying on information provided by the Conflict-Free Sourcing Initiative (CFSI), an industry group that works to address Conflict Minerals issues within supply chains. One CFSI tool we used was the Conflict Minerals Reporting Template (CMRT), which facilitates the collection of information on the source of Conflict Minerals. We also relied on information from the Conflict-Free Smelter Program (CFSP), a voluntary initiative managed by the CFSI in which an independent third party audits the procurement activities of a smelter or refiner to determine, with reasonable confidence, that the minerals it processes originated from conflict-free sources. Upon completion of a successful audit, the smelter or refiner is designated by the CFSI as "Compliant".

Due Diligence Design

We designed our due diligence to conform to an internationally recognized due diligence framework, the *Organisation for Economic Co-operation and Development (OECD), Due Diligence Guidance for Responsible Supply Chains of Minerals from Conflict-Affected and High-Risk Areas, Third Edition, and related supplements on Tin, Tantalum and Tungsten and on Gold* (collectively, the “OECD Framework”).

Due Diligence Performed

The OECD Framework provides a five-step framework for risk-based due diligence in the mineral supply chain. Using this framework, we list below the actions taken to exercise due diligence on the source of Conflict Minerals we used when providing packaging services.

Step 1 - Establish Strong Management Systems

- Adopted and published a Conflict Minerals Policy, stating our goal to achieve a conflict-free supply chain, on the “About Us” tab of www.amkor.com.
- Assembled an internal team to implement our Conflict Minerals Policy, which included members from the Procurement, Legal, Internal Audit and Quality Assurance teams, and reported on program activities to Executive Management.
- Established and updated processes and procedures as appropriate to meet the requirements of our Conflict Minerals Policy.
- Required our direct suppliers to undertake due diligence to achieve a conflict-free supply chain.
- Instituted a records retention practice for records related to the sourcing of Conflict Minerals.
- Maintained our existing grievance system where suppliers can raise a question or make a report on ethical or legal issues, including issues relating to Conflict Minerals.

Step 2 - Identify and Assess Risks in the Supply Chain

- Conducted a supply chain survey of our direct suppliers of Conflict Minerals using the CMRT to identify the smelters, refiners and/or mines of origin of Conflict Minerals.
- Compared smelters, refiners and/or mines of origin identified by our direct suppliers against the list of smelters, refiners and mineral sourcing information that have received a “Compliant” designation by the CFSP.
- Performed additional due diligence on a portion of our direct suppliers, including on-site reviews of documentation and procedures, to evaluate the reasonableness of responses received and alignment with the OECD Framework.

Step 3 - Design and Implement a Strategy to Respond to Identified Risks

- Prepared a risk management plan designed to mitigate the risk that our direct suppliers do not meet our expectations to achieve a conflict-free supply chain.
 - Conducted training and held periodic communications with our direct suppliers to increase awareness of our goal to achieve a conflict free supply chain and to reduce the risk of inaccurate information received from our suppliers.
 - Contacted a portion of smelters and refiners within our supply chain to encourage them to participate in the CFSP or industry equivalent. Our outreach efforts included on-site visits with select smelters and meetings with industry associations.
 - Reported information on the source and chain of custody of conflict minerals in our supply chain to Executive Management.
-

Step 4 - Carry Out Independent Third-party Audits of Smelter/Refiner's Due Diligence Practices

- Maintained our membership in the CFSI, an industry group that has implemented the CFSP to carry out independent Third-party Audits of a Smelter/Refiner's Due Diligence Practices. As a member, we have relied on the results of the CFSP to provide smelter, refiner, and mineral sourcing information on the Conflict Minerals we used when providing packaging services.

Step 5 - Report Annually on Supply Chain Due Diligence

- Published our supply chain due diligence within our 2016 Form SD and Conflict Minerals Report, which is located on the "Investors" tab of www.amkor.com, under "SEC filings".

Due Diligence Results

The results of our due diligence indicate that the sources of Conflict Minerals are (1) from recycled or scrap materials, (2) from within the Democratic Republic of the Congo or adjoining countries (the "Covered Countries"), or (3) from outside the Covered Countries. We received responses from all our direct suppliers subject to our supply chain survey for 2016. Collectively, their responses listed 205 smelters and refiners within their supply chains as of December 31, 2016, all of which have been designated as Compliant under the CFSP.

The following tables list the population of smelters, refiners, and origin of Conflict Minerals within our supply chain for 2016. Our efforts to determine this population are described above under the caption "Due Diligence Performed." The information presented is derived from information provided by our direct suppliers and the CFSP.

Smelters and Refiners Processing Conflict Minerals		
Mineral	Smelter and Refiner Name	Country Location
Gold	Aida Chemical Industries Co., Ltd.	Japan
Gold	Allgemeine Gold-und Silberscheideanstalt A.G.	Germany
Gold	Almalyk Mining and Metallurgical Complex (AMMC)	Uzbekistan
Gold	AngloGold Ashanti Córrego do Sítio Mineração	Brazil
Gold	Argor-Heraeus S.A.	Switzerland
Gold	Asahi Pretec Corp.	Japan
Gold	Asahi Refining Canada Ltd.	Canada
Gold	Asahi Refining USA Inc.	United States of America
Gold	Asaka Riken Co., Ltd.	Japan
Gold	Aurubis AG	Germany
Gold	Bangko Sentral ng Pilipinas (Central Bank of the Philippines)	Philippines
Gold	Boliden AB	Sweden
Gold	C. Hafner GmbH + Co. KG	Germany
Gold	CCR Refinery - Glencore Canada Corporation	Canada
Gold	Chimet S.p.A.	Italy
Gold	Do Sung Corporation	Korea (Republic of)
Gold	DODUCO GmbH	Germany
Gold	Dowa	Japan
Gold	Eco-System Recycling Co., Ltd.	Japan

Smelters and Refiners Processing Conflict Minerals		
Gold	Elemetal Refining, LLC	United States of America
Gold	Heimerle + Meule GmbH	Germany
Gold	Heraeus Ltd. Hong Kong	China
Gold	Heraeus Precious Metals GmbH & Co. KG	Germany
Gold	Inner Mongolia Qiankun Gold and Silver Refinery Share Co., Ltd.	China
Gold	Ishifuku Metal Industry Co., Ltd.	Japan
Gold	Istanbul Gold Refinery	Turkey
Gold	Japan Mint	Japan
Gold	Jiangxi Copper Co., Ltd.	China
Gold	JSC Ekaterinburg Non-Ferrous Metal Processing Plant	Russian Federation
Gold	JSC Uralelectromed	Russian Federation
Gold	JX Nippon Mining & Metals Co., Ltd.	Japan
Gold	Kazzinc	Kazakhstan
Gold	Kennecott Utah Copper LLC	United States of America
Gold	Kojima Chemicals Co., Ltd.	Japan
Gold	Kyrgyzaltyn JSC	Kyrgyzstan
Gold	LS-NIKKO Copper Inc.	Korea (Republic of)
Gold	Materion	United States of America
Gold	Matsuda Sangyo Co., Ltd.	Japan
Gold	Metalor Technologies (Hong Kong) Ltd.	China
Gold	Metalor Technologies (Singapore) Pte., Ltd.	Singapore
Gold	Metalor Technologies S.A.	Switzerland
Gold	Metalor USA Refining Corporation	United States of America
Gold	Metalúrgica Met-Mex Peñoles S.A. De C.V.	Mexico
Gold	Mitsubishi Materials Corporation	Japan
Gold	Mitsui Mining and Smelting Co., Ltd.	Japan
Gold	MMTC-PAMP India Pvt., Ltd.	India
Gold	Moscow Special Alloys Processing Plant	Russian Federation
Gold	Nadir Metal Rafineri San. Ve Tic. A.Ş.	Turkey
Gold	Nihon Material Co., Ltd.	Japan
Gold	Ögussa Österreichische Gold- und Silber-Scheideanstalt GmbH	Austria
Gold	Ohura Precious Metal Industry Co., Ltd.	Japan
Gold	OJSC "The Gulidov Krasnoyarsk Non-Ferrous Metals Plant" (OJSC Krastsvetmet)	Russian Federation
Gold	OJSC Novosibirsk Refinery	Russian Federation
Gold	PAMP S.A.	Switzerland
Gold	Prioksky Plant of Non-Ferrous Metals	Russian Federation
Gold	PT Aneka Tambang (Persero) Tbk	Indonesia
Gold	PX Précinox S.A.	Switzerland
Gold	Rand Refinery (Pty) Ltd.	South Africa
Gold	Republic Metals Corporation	United States of America
Gold	Royal Canadian Mint	Canada
Gold	Samduck Precious Metals	Korea (Republic of)
Gold	Schone Edelmetaal B.V.	Netherlands

Smelters and Refiners Processing Conflict Minerals		
Gold	SEMPSA Joyería Platería S.A.	Spain
Gold	Shandong Zhaojin Gold & Silver Refinery Co., Ltd.	China
Gold	Sichuan Tianze Precious Metals Co., Ltd.	China
Gold	Singway Technology Co., Ltd.	Taiwan
Gold	SOE Shyolkovsky Factory of Secondary Precious Metals	Russian Federation
Gold	Solar Applied Materials Technology Corp.	Taiwan
Gold	Sumitomo Metal Mining Co., Ltd.	Japan
Gold	T.C.A S.p.A	Italy
Gold	Tanaka Kikinzoku Kogyo K.K.	Japan
Gold	The Refinery of Shandong Gold Mining Co., Ltd.	China
Gold	Tokuriki Honten Co., Ltd.	Japan
Gold	Torecom	Korea (Republic of)
Gold	Umicore Brasil Ltda.	Brazil
Gold	Umicore Precious Metals Thailand	Thailand
Gold	Umicore S.A. Business Unit Precious Metals Refining	Belgium
Gold	United Precious Metal Refining, Inc.	United States of America
Gold	Valcambi S.A.	Switzerland
Gold	Western Australian Mint trading as The Perth Mint	Australia
Gold	Yamamoto Precious Metal Co., Ltd.	Japan
Gold	Yokohama Metal Co., Ltd.	Japan
Gold	Zhongyuan Gold Smelter of Zhongjin Gold Corporation	China
Gold	Zijin Mining Group Co., Ltd. Gold Refinery	China
Tantalum	Changsha South Tantalum Niobium Co., Ltd.	China
Tantalum	Conghua Tantalum and Niobium Smeltry	China
Tantalum	D Block Metals, LLC	United States of America
Tantalum	Duoluoshan	China
Tantalum	Exotech Inc.	United States of America
Tantalum	F&X Electro-Materials Ltd.	China
Tantalum	FIR Metals & Resource Ltd.	China
Tantalum	Global Advanced Metals Aizu	Japan
Tantalum	Global Advanced Metals Boyertown	United States of America
Tantalum	Guangdong Zhiyuan New Material Co., Ltd.	China
Tantalum	H.C. Starck Co., Ltd.	Thailand
Tantalum	H.C. Starck GmbH Goslar	Germany
Tantalum	H.C. Starck Hermsdorf GmbH	Germany
Tantalum	H.C. Starck Inc.	United States of America
Tantalum	H.C. Starck Ltd.	Japan
Tantalum	H.C. Starck Smelting GmbH & Co. KG	Germany
Tantalum	Hengyang King Xing Lifeng New Materials Co., Ltd.	China
Tantalum	Hi-Temp Specialty Metals, Inc.	United States of America
Tantalum	JiuJiang JinXin Nonferrous Metals Co., Ltd.	China
Tantalum	Jiujiang Tanbre Co., Ltd.	China
Tantalum	LSM Brasil S.A.	Brazil
Tantalum	Metallurgical Products India Pvt., Ltd.	India
Tantalum	Mineração Taboca S.A.	Brazil



Smelters and Refiners Processing Conflict Minerals		
Tantalum	Mitsui Mining & Smelting	Japan
Tantalum	Molycorp Silmet A.S.	Estonia
Tantalum	Ningxia Orient Tantalum Industry Co., Ltd.	China
Tantalum	Solikamsk Magnesium Works OAO	Russian Federation
Tantalum	Taki Chemical Co., Ltd.	Japan
Tantalum	Telex Metals	United States of America
Tantalum	Ulba Metallurgical Plant JSC	Kazakhstan
Tantalum	Yichun Jin Yang Rare Metal Co., Ltd.	China
Tantalum	Zhuzhou Cemented Carbide Group Co., Ltd.	China
Tin	Alpha	United States of America
Tin	China Tin Group Co., Ltd.	China
Tin	Cooperativa Metalurgica de Rondônia Ltda.	Brazil
Tin	CV Ayi Jaya	Indonesia
Tin	CV Gita Pesona	Indonesia
Tin	CV Serumpun Sebalai	Indonesia
Tin	CV United Smelting	Indonesia
Tin	CV Venus Inti Perkasa	Indonesia
Tin	Dowa	Japan
Tin	Elmet S.L.U.	Spain
Tin	EM Vinto	Bolivia (Plurinational State of)
Tin	Fenix Metals	Poland
Tin	Gejiu Non-Ferrous Metal Processing Co., Ltd.	China
Tin	Jiangxi Ketai Advanced Material Co., Ltd.	China
Tin	Magnu's Minerais Metais e Ligas Ltda.	Brazil
Tin	Malaysia Smelting Corporation (MSC)	Malaysia
Tin	Melt Metais e Ligas S.A.	Brazil
Tin	Metallic Resources, Inc.	United States of America
Tin	Metallo-Chimique N.V.	Belgium
Tin	Mineração Taboca S.A.	Brazil
Tin	Minsur	Peru
Tin	Mitsubishi Materials Corporation	Japan
Tin	O.M. Manufacturing (Thailand) Co., Ltd.	Thailand
Tin	O.M. Manufacturing Philippines, Inc.	Philippines
Tin	Operaciones Metalurgical S.A.	Bolivia (Plurinational State of)
Tin	PT Aries Kencana Sejahtera	Indonesia
Tin	PT Artha Cipta Langgeng	Indonesia
Tin	PT ATD Makmur Mandiri Jaya	Indonesia
Tin	PT Babel Inti Perkasa	Indonesia
Tin	PT Bangka Prima Tin	Indonesia
Tin	PT Bangka Tin Industry	Indonesia
Tin	PT Belitung Industri Sejahtera	Indonesia
Tin	PT Bukit Timah	Indonesia
Tin	PT Cipta Persada Mulia	Indonesia
Tin	PT DS Jaya Abadi	Indonesia
Tin	PT Eunindo Usaha Mandiri	Indonesia



Smelters and Refiners Processing Conflict Minerals		
Tin	PT Inti Stania Prima	Indonesia
Tin	PT Menara Cipta Mulia	Indonesia
Tin	PT Mitra Stania Prima	Indonesia
Tin	PT Panca Mega Persada	Indonesia
Tin	PT Prima Timah Utama	Indonesia
Tin	PT Refined Bangka Tin	Indonesia
Tin	PT Sariwiguna Binasentosa	Indonesia
Tin	PT Stanindo Inti Perkasa	Indonesia
Tin	PT Sukses Inti Makmur	Indonesia
Tin	PT Sumber Jaya Indah	Indonesia
Tin	PT Timah (Persero) Tbk Kundur	Indonesia
Tin	PT Timah (Persero) Tbk Mentok	Indonesia
Tin	PT Tinindo Inter Nusa	Indonesia
Tin	PT Tommy Utama	Indonesia
Tin	Resind Indústria e Comércio Ltda.	Brazil
Tin	Rui Da Hung	Taiwan
Tin	Soft Metais Ltda.	Brazil
Tin	Thaisarco	Thailand
Tin	VQB Mineral and Trading Group JSC	Viet Nam
Tin	White Solder Metalurgia e Mineração Ltda.	Brazil
Tin	Yunnan Tin Company Limited	China
Tungsten	A.L.M.T. TUNGSTEN Corp.	Japan
Tungsten	Chenzhou Diamond Tungsten Products Co., Ltd.	China
Tungsten	Chongyi Zhangyuan Tungsten Co., Ltd.	China
Tungsten	Fujian Jinxin Tungsten Co., Ltd.	China
Tungsten	Ganzhou Huaxing Tungsten Products Co., Ltd.	China
Tungsten	Ganzhou Jiangwu Ferrotungsten Co., Ltd.	China
Tungsten	Ganzhou Seadragon W & Mo Co., Ltd.	China
Tungsten	Global Tungsten & Powders Corp.	United States of America
Tungsten	Guangdong Xianglu Tungsten Co., Ltd.	China
Tungsten	H.C. Starck GmbH	Germany
Tungsten	H.C. Starck Smelting GmbH & Co.KG	Germany
Tungsten	Hunan Chenzhou Mining Co., Ltd.	China
Tungsten	Hunan Chuangda Vanadium Tungsten Co., Ltd. Wuji	China
Tungsten	Hunan Chunchang Nonferrous Metals Co., Ltd.	China
Tungsten	Hydrometallurg, JSC	Russian Federation
Tungsten	Japan New Metals Co., Ltd.	Japan
Tungsten	Jiangwu H.C. Starck Tungsten Products Co., Ltd.	China
Tungsten	Jiangxi Gan Bei Tungsten Co., Ltd.	China
Tungsten	Jiangxi Tonggu Non-ferrous Metallurgical & Chemical Co., Ltd.	China
Tungsten	Jiangxi Xinheng Tungsten Industry Co., Ltd.	China
Tungsten	Jiangxi Yaosheng Tungsten Co., Ltd.	China
Tungsten	Kennametal Fallon	United States of America
Tungsten	Kennametal Huntsville	United States of America
Tungsten	Malipo Haiyu Tungsten Co., Ltd.	China



Smelters and Refiners Processing Conflict Minerals		
Tungsten	Niagara Refining LLC	United States of America
Tungsten	Nui Phao H.C. Starck Tungsten Chemicals Manufacturing LLC	Viet Nam
Tungsten	Tejing (Vietnam) Tungsten Co., Ltd.	Viet Nam
Tungsten	Vietnam Youngsun Tungsten Industry Co., Ltd.	Viet Nam
Tungsten	Wolfram Bergbau und Hütten AG	Austria
Tungsten	Xiamen Tungsten (H.C.) Co., Ltd.	China
Tungsten	Xiamen Tungsten Co., Ltd.	China
Tungsten	Xinhai Rendan Shaoguan Tungsten Co., Ltd.	China

Countries of Origin for Conflict Minerals, To the Extent Known		
Australia	Guatemala	Nigeria
Austria	Guinea	Panama
Benin	Guyana	Peru
Bolivia (Plurinational State of)	Honduras	Portugal
Brazil	India	Russia
Burkina Faso	Indonesia	Rwanda
Burundi	Japan	Senegal
Cambodia	Laos	Sierra Leone
Canada	Madagascar	South Africa
Chile	Malaysia	Spain
China	Mali	Thailand
Colombia	Mexico	Togo
Democratic Republic of Congo	Mongolia	Uganda
Ecuador	Mozambique	United States of America
Eritrea	Myanmar	Uzbekistan
Ethiopia	Namibia	Vietnam
France	Nicaragua	Zimbabwe
Ghana		

Due Diligence Improvements

We plan to undertake the following steps during the next compliance period to mitigate the risk that our Conflict Minerals benefit armed groups:

- Continue our engagement with our direct suppliers with periodic communications, training and evaluation of smelter and refiner data provided.
- Maintain our efforts to identify the smelters and refiners within our supply chain by evaluating the information received from our direct suppliers and comparing it with revised information published by the CFSI.
- Contact a portion of our smelters and refiners directly to encourage them to participate in the CFSP or industry equivalent.
- Continue our active participation in the CFSI and support industry efforts to improve the monitoring and reporting of supply chain activities.