Integrated System for the Monitoring of Trade in Medicinal Products (ZSMOPL)

Metrics			
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2015-09-15	1.0	Dobromiła Szeluch – Walczak	Version for approval.
2015-09-23	1.1	Renata Merta	Contractor's statement to the comments submitted by the National Centre for Healthcare Information Systems (CSIOZ)
2015-11-23	2.0	Renata Merta, Tomasz Salamończyk	Contractor's statement to the comments submitted by the National Centre for Healthcare Information Systems (CSIOZ)
2015-11-25	2.1	Renata Merta, Tomasz Salamończyk	Adding the fifth column: "Error or warning code" being a simple combination of "Rule domain code" and "Rule no.".
2016-09-08	2.2	Sygnity	Adding the chapter: "Message header specification"

2016-09-14	2.3	Sygnity	1. Adding the chapter: "WebService operation call"
			2. Updating the chapters: "Message header specification" Message header specification", "Trade and stock message", "Shortage report message" and "Delivery planning message"
			3. Type change for dataDokKorygowanego from "date" to "date+time" in the komunikatTransakcja element.
			4. Change of multiplicities of idMPDPodmiotuRaportujacego from "1" to "0-1" in the komunikatOS element.
2016-10-05	2.4	Sygnity	1. Correction of element names in the chapters: "Trade and stock message", "Shortage report message" and "Delivery planning message".
			2. Updating the description of attribute idMPDPodmDrugaStrona in the "Trade and stock message" chapter.
			3. Replacing the chapter nos. in the text with chapter titles.
2016-10-21	2.5	Sygnity	1. Correction of KM1 error description and adding of KM4 error.
			2. Adding of valid display of error list condition in the "Messaging model" chapter
2016-11-22	2.6	Sygnity	1. Specification of descriptions of the idBiznesowy attributes in the "Description of helper types/classes" chapter
			2. Adding of explanation of PR abbreviation in the "Glossary of terms" chapter.
			3. Adding PZO transaction to the description of the komunikatTransakcjaOSPozStanMT element in the "Trade and stock message" chapter.
			4. Changed of place of business ID for the idMPDPodmDrugaStrona element to 14-digit REGON (National Official Register of Business Entities No.) in the "Trade and stock message" chapter.

2016-11-28	2.7	Sygnity	Deleting of reference to the requirement in the description of idBiznesowy attribute in the **IdentyfikatorPodmiotuRaportujacegoMT** element in the "Description of helper types/class" chapter.
2017-05-31	2.8	Sygnity	Changes cancelled
2017-08-23	2.9	Sygnity	1. Change to the TROS2 error content in the "Validation of transactions in the trade and stock message" chapter 2. Change of multiplicity and description of **rodzajPodmDrugaStrona** attribute in the **komunikatTransakcja** element in the "5.1 Trade and stock message" chapter 3. Change of the name type of idMPDPodmDrugaStrona attribute in the "5.1 Trade and stock message" chapter 4. Adding the **IdentyfikatorMPDPodmiotuDrugaStronaMT** element in the "6.Description of helper types/class" chapter.
2017-08-31	2.10	Sygnity	Change to the **idBiznesowyPodmDrugaStrona** value for the Marketing Authorisation Holder in the "5.1 Trade and stock message" chapter. Change to the **idBiznesowy** value for the Marketing Authorisation Holder in the "6. Description of helper types/class" chapter.
2017-09-18	2.11	Sygnity	Adding the type of PR entity to the description of **rodzajPodmDrugaStrona, nazwaPodmDrugaStrona** and **idBiznesowyPodmDrugaStrona** elements in the "Trade and stock message" chapter

2017-10-09	2.12	CSIOZ	Change on information on the reporting obligations in the table in chapter 2. Glossary of terms. Specification of the **PZO** transaction description. Correction of the description of **idMPDPodmDrugaStrona** element. Correction of the description of **nrZapotrzImportuDocelInterw** element. Specification of the description of **dataCzasTransakcji** element in the shortage report message. Specification of the description of **dataCzasTransakcji** and **dataPoczatkowa** elements in the delivery planning message. Correction of the description of **idBiznesowy** element in the **IdentyfikatorMPDPodmiotuMT** and **IdentyfikatorMPDPodmiotuDrugaStronaMT** types. Change of nomenclature from **"healthcare entity undertaking"** to "**healthcare institution of healthcare entity"**.
2017-12-14	2.13	Sygnity	Adding the "Import of delivery declarations" chapter
2018-04-17	2.14	Sygnity	Improved visibility of an exemplary header and body of message. Specification of the description in chapter 9. Adding the section "7.1 Message validation for compliance with template" and exemplary error reports resulting from non-compliance with XSD in the chapters 7.2, 7.3 and 7.4; change of nomenclature from "manufacturer" to "marketing authorisation holder (MAH)" in chapter 5.1.
2018-06-01	2.15	Sygnity	Specification of the description of **TROSPOZ33** error in chapter„7.3 Validation of transactions in the trade and stock message Specification of the description of **kodEAN** attribute in **komunikatTransakcjaOSPoz** element in "5.1 Trade and stock message" chapter Change of Format/Type of attributes: **ilość, iloscPrzedKorekta, iloscPoKorekcie, stanIloscDostepnySeria, stanIloscWstrzWycofSeria, stanIloscDostepny, stanIloscWstrzWycof** in "5.1 Trade and stock message" chapter

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2019-01-15	2.16	Pentacomp	Updated KM2 description in chapter "7.2 Message header validation"
			Added TROS24 and TROSPOZ70 error, deleted TROS25 error and updated TROSPOZ30 description in chapter "7.3 Validation of transactions in the trade and stock message"
			Added point 4) in chapter "4 WebService operation call"
			Added subsection 5.4 to chapter "5 Message structure"
			Changed multiplicity of attribute **CzyProduktWydanyZRefundacja** in "5.1 Trade and stock message" chapter
			Added section "10 Message status"

TABLE OF CONTENTS

1 Introduction

This document contains the description of information structure of the ZSMOPL messages. The document was drawn-up for the purposes of developers of software sending data to the ZSMOPL system in effect of detailed analysis carried out by the system contractor in Procurement no. 3 to the Contract No. CSIOZ/121/2014.

2 Glossary of terms

Types of entities reporting the trade in monitored products. The classification below is used at the stage or registration of a business entity in the ZSMOPL. When a specific business entity is displayed in two categories e.g. healthcare entity running also a retail pharmacy, it should be registered as two separate reporting entities (for the purposes of sending the messages – two separate messaging nodes) – one of them as a AP-type entity and the second one as PF- or PA- or PL-type entity (in compliance with the description entered in the table below).

Symbol	Description	Reporting obligation
AP	A business entity running retail pharmacies, dispensaries, company's pharmacies, other outside PA and PF categories, within its structure.	Trade and stock message. Shortage report message.
HU	A business entity running pharmaceutical wholesales within its structure.	Trade and stock message.
PA	A business entity running a hospital pharmacy within its structure.	Trade and stock message.
PF	A business entity running a pharmaceutical department within its structure.	Trade and stock message.
PL	A business entity running no pharmacy or pharmaceutical department within its structure.	No reporting obligation.
PO	Marketing authorisation holder.	Trade and stock message. Delivery planning message.

Types of places of business of the reporting entity.

Symbol	Description
MPDAP	A pharmacy holding its ID in the Register of Pharmacies.
MPDHU	A pharmaceutical wholesale holding its ID in the Register of Pharmaceutical Wholesales.
MPDPL	A healthcare institution of healthcare entity holding the ID (14-digit REGON (National Official Register of Business Entities No.)) in the Register of Healthcare Entities in the Healthcare Entity resources.

Types of entities with which the transaction of trade in medicinal products is made. Symbols and terms constitute no classification of reporting entities however refer to classification of the other trading party in relation to the reporting entities.

Symbol	Descriptions
AP	An entity running a pharmacy (retail, dispensary, company's pharmacy, other pharmacy than the hospital pharmacies and pharmaceutical departments).

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FP	Polish business entity other than PO, HU, AP, PW, PR.
FZH	Foreign business entity running a pharmaceutical wholesale.
FZI	Foreign business entity other than classified above.
FZO	Foreign business entity with a status of marketing authorisation holder.
HU	Entity running a pharmaceutical wholesale.
OF	Natural person.
PO	Marketing authorisation holder.
PR	Healthcare entity performing its activity as individual professional practice or group practice of physicians, dentists, nurses and midwives.
PW	Healthcare entity other than PR.

Types of transactions in the trade and stock message.

Symbol	Description	Document requires specification of the other party to trade: - yes - no (in-house document)	Effect on available status	Effect on suspended / recalled from trade status
ZKU	Purchase (from the Polish entity)	yes	not applicable	not applicable
ZPR	Import (from the EU entity)	yes	not applicable	not applicable
ZIM	Import (from the non-EU entity)	yes	not applicable	not applicable
SPR	Sales (to the Polish entity)	yes	not applicable	not applicable
SWY	Export (to the EU entity)	yes	not applicable	not applicable
SEK	Export (to the non-EU entity)	yes	not applicable	not applicable
PKU	Receipt into the warehouse due to purchase(from the Polish entity)	yes	increases	not applicable
PPR	Receipt into the warehouse due to import (from the EU entity)	yes	increases	not applicable
PIM	Receipt into the warehouse due to import (from the non-EU entity)	yes	increases	not applicable
WPR	Release from the warehouse due to sales (to the Polish entity)	yes	decreases	not applicable
WWY	Release from the warehouse due to export (to the EU entity)	yes	decreases	not applicable
WEK	Release from the warehouse due to export (to the non-EU entity)	yes	decreases	not applicable
WZR	Complaint return to supplier (decrease in stock).	yes	decreases	decreases
PZR	Acceptance of return from the recipient (increase in stock).	yes	increases	increases

MWG	Recall in the CPI decision	no	decreases	increases
WWG	Return due to recall to the supplier (decrease in stock)	yes	not applicable	decreases
PWY	Acceptance of return due to recall from recipient (increase in stock)	yes	not applicable	increases
PM+	Warehouse transfer within the assets of business entity – to increase in stock. Transaction applies to warehouse transfer within the two places of business of the same entity.	yes	increases	increases
WM-	Warehouse transfer within the assets of business entity – to decrease in stock. Transaction applies to warehouse transfer within the two places of business of the same entity.	yes	decreases	decreases
PZO	Batch release	no	increases	not applicable
WUT	Disposal due to expiry date	no	decreases	not applicable
WUI	Disposal for other reason than expiry date. A single transaction applies to stock available for trade OR suspended in trade.	no	decreases	decreases
WRO	Internal spending for hospital ward	no	decreases	not applicable
WRW	Other internal spending.	no	decreases	not applicable
MWO	Suspension in trade. A single transaction applies to the stocks available for trade (causes decrease in stock) and at the same time to stock suspended in trade (causes increase in stock).	no	decreases	increases

| MDO	Authorised to the market. A single transaction applies to the stocks available for trade (causes increase in stock) and at the same time to stock suspended in trade (causes decrease in stock).	no	increases	decreases
IBO	Opening balance	no	establishes	establishes
IR+	Stock difference – to increase in stock	no	establishes	establishes
IR-	Stock difference – to decrease in stock	no	establishes	establishes

3   Messaging model

The diagram below presents the Messaging model between the IT system of the reporting entity and the ZSMOPL system.
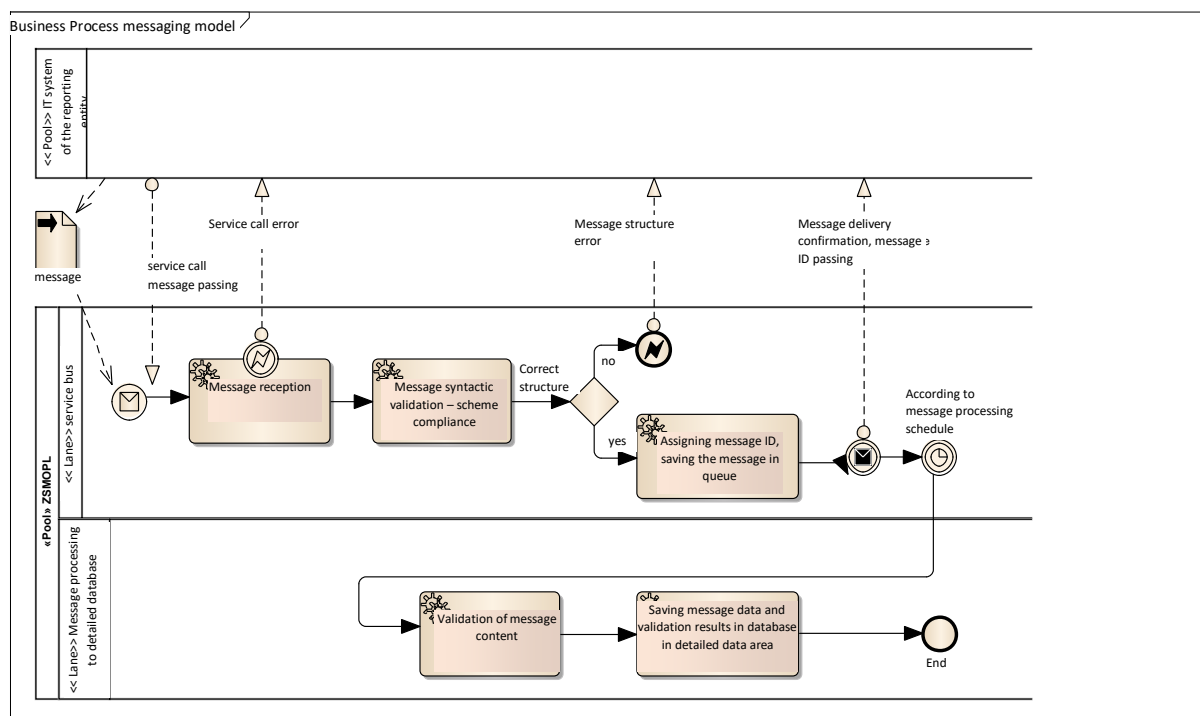
Messaging model is of universal nature – applies to all types of messages passed from the IT systems of the reporting entities to the ZSMOPL.

1. The IT system calls the ZSMOPL message passing service. In the case of errors at the stage of service call, the IT system of the reporting entity obtains an error report.
2. The first stage of message validation is checking compliance with the passed message with the XML Schema. In the case of any identified non-compliance with the format, the entire message is rejected – no message items are analysed (CSIOZ shall publish the XML Schema used at this stage of validation to enable the software vendors checking the compliance of generated messages by their own). When the message structure error is detected, the entire message is rejected (no message items are analysed) and the IT system of the reporting entity obtains a structure error report. If the message structure is valid, the ZSMOPL service bus generates the message ID, saves the message in the queue and sends back information containing the message reception confirmation and generated message ID to the IT system of the reporting entity.
3. Messages stored in the message queue are processed asynchronously as scheduled. Processing consists in validation of message for compliance with the validity rules. Logical description of rules is entered in this document below, respectively for the message type. The check results in confirmed validity or identified invalidity in the form of error or warning.

4. Message check results are made available to the reporting entities at the ZSMOPL Website. Website users, representatives of the reporting entities can view the validity results with accuracy to the entire messages and individual transactions within the messages and transaction items. If the message item error is detected (in a single transaction), the entire message is considered invalid. Validation results are entered in quantitative (number of transactions in message, number of invalid transactions, number of transactions with warnings) and description form as a list of errors and warnings. The condition for valid display of the error list on the ZSMOPL is entering a valid ID of the reporting entity in the message and, if required, entering a valid ID of the place of business.

4 WebService operation call

According to the messaging model described in the "Messaging model" chapter above, the reporting entities should connect with ZSMOPL to send messages. A message contains the transaction datasets i.e. it consists in one or more transactions. Messages can be divided by types:

1) Trade and stock message – it is used to collect data on wholesale and retail trade in monitored products. The message is send using the zapiszKomunikatOS method. To this end, insert the XML element <zapiszKomunikatOS> in the body of the message to be sent. The message structure must comply with the scheme described in the "Trade and stock message" chapter. After the message is sent, we receive a reply in a form of a Soap document i.e. a header and content. The content includes <zapiszKomunikatOSResponse> containing an important element <identyfikatorKomunikatu> and sent message ID value in the ZSMOPL system. <identyfikatorKomunikatu> is of IdentyfikatorKomunikatuMT type, description of which is entered further in the "Message structure" chapter.

2) Shortage report message – it is used to collect data on shortages of medicinal products on the market. The message is sent using the zapiszKomunikatZB method. To this end, insert the XML element <zapiszKomunikatZB> in the body of the message to be sent. The message structure must comply with the scheme described in the "Shortage report message" chapter. After the message is sent, we receive a reply in a form of a Soap document i.e. a header and content. The content includes <zapiszKomunikatZBResponse> containing an important element <identyfikatorKomunikatu> and sent message ID value in the ZSMOPL system. <identyfikatorKomunikatu> is of IdentyfikatorKomunikatuMT type, description of which is entered further in the "Message structure" chapter.

3) Delivery planning message – it is used to collect data on delivery schedule, suspension, resumption and end of deliveries. The message is sent using the zapiszKomunikatZB method. To this end, insert the XML element <zapiszKomunikatPD> in the body of the message to be sent. The message structure must comply with the scheme described in the "Delivery planning message" chapter.
After the message is sent, we receive a reply in a form of a Soap document i.e. a header and content. The content includes <zapiszKomunikatPDResponse> zawierający istotny element <identyfikatorKomunikatu> containing an important element <identyfikatorKomunikatu> and sent message ID value in the ZSMOPL system. <identyfikatorKomunikatu> is of IdentyfikatorKomunikatuMT type, description of which is entered further in the "Message structure" chapter.

4) Check status message – it is used to check status of previously sent trade and stock, shortage or delivery message. The message is sent using the zapytajOStatusKomunikatu method. To this end, insert the XML element <zapytajOStatusKomunikatu> in the body of the message to

be sent. The message structure must comply with the scheme described in the "Check status message" chapter.

After the message is sent, we receive a reply in a form of Soap document i.e. a header and content. The content includes <statusOdpowiedz> containing <identyfikatorKomunikatu>, <statusKomunikatu> and <blad>, which parameters are described in chapters 7.2, 7.3, 7.4 and 7.5.

Please note that each message type has its individual structure.

Any sent document includes a parent marker <soapenv:Envelope> containing the <soapenv:Header> marker and the <soapenv:Body> marker required in the sent document.

<soapenv:Header> marker contains information on the envelope security measures (authentication, message summary). Find more in the „Message header specification" section.

Example:

```
<soapenv:Header><wsse:Security xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/
oasis-200401-wss-wssecurity-secext-1.0.xsd" xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/
oasis-200401-wss-wssecurity-utility-1.0.xsd"><wsse:BinarySecurityToken EncodingType="http://
docs.oasis-open.org/wss/2004/01/oasis-200401-wss-soap-message-security-1.0#Base64Binary" ValueType="http://
docs.oasis-open.org/wss/2004/01/oasis-200401-wss-x509-token-profile-1.0#X509PKIPathv1" wsu:Id="
X509-925981AA89D6C41EB3144465584498121">MIIGQDCCA2owggJSoAMCAQICCQCuBuTAUz+owzANBgkqhkiG9w0BAQsFADBFMQswCQYDVQ
QGEwJBVTETMBEGA1UECAwKU29tZS1TdGF0ZTEhMB8GA1UECgwYSW50ZXJuZXQgV2lkZ2l0cyBQdHkgTHRkMB4XDTE1MTAwMTE0MDMyNVoXDTE2
MDkzMDE0MDMyNVowRTELMAkGA1UEBhMCQVUxEzARBgNVBAgMClNvbWUtU3RhdGUxITAfBgNVBAoMGEludGVybmV0IFdpZGdpdHMgUHR5IEx0ZD
CCASIwDQYJKoZIhvcNAQEBBQADggEPADCCAQoCggEBAN/7gzy818yt6pojNDG0kG3bMGSaLLAadFfsk9vXdeuLEFWPMjFR6nyWIOWi7tSdIuNz
DQ8MtMP0fx/zDZdgGvFzQTQmYkBeaxKEpq9fyZdjC41Y+QuWYvJif4xGym/MgwSF2GEolYQXr+pbx72wKM81Yc/
mAyHPTy7Ev+4Djd6V7dUq2pt5GDXEM2wywcL8uXdShthGCNFIDZgm69PweZoUJW8C/cJ90yGVwdoICRnt34SM/2POdL/H22TPtMAF1Pq3cuDiY
m+MSUfXFavGOeHxfajUvfEDNXS7ggX8mVbxH+76uI4YJzSbdlfflfnOMayqRhLOghLbJUBGKC5xzUcCAwEAAaNdMFswHQYDVR0OBBYEFPPAx1e
7dMjLUU4MXrlxBHYG0XKDMB8GA1UdIwQYMBaAFPPAx1e7dMjLUU4MXrlxBHYG0XKDMAwGA1UdEwQFMABAf8wCwYDVR0PBAQDAgEGMA0GCSqGS
Ib3DQEBCwUAA4IBAQB8YuxNAjzjCofaIpWtIIFZ8Wod0lJvLNXs6xvq1RtmJCST9fHw3tEoZRlHRaCXKsIgvhdv6FTahEfnNsgT24V/
HQ62u6Arm0QRxFS0GXPTkYz9Aj/eBnCb3tCfd4QcGQzuWxiMXQCTp7KnfC/aaIi2zJKN08RZw7oGsVMJTOMUFhMvMgzjsCK9+M4yDGErkintYd
UbRkmyiw2jP80siyOPr5w+Dm4HNLHgrV7N+6oAUN3CQQ9vao8HhJpuwxHRIW+dihPt46B/wFTGHeG/
quI4O11mJl9Wr6TYYZ53JK6xA+4eESnzFFkf6YVZsnPApeZuuVuBSkw2B1M//IJk9AkMMIICzjCCAbYCCQCoP6U9NK/w+TANBgkqhkiG9w0BAQ
sFADBFMQswCQYDVQQGEwJBVTETMBEGA1UECAwKU29tZS1TdGF0ZTEhMB8GA1UECgwYSW50ZXJuZXQgV2lkZ2l0cyBQdHkgTHRkMB4XDTE1MTAw
MTE0MTMxM1oXDTE2MDkzMDE0MTMxM1owDTELMAkGA1UEAxMCaHUwggEiMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEKAoIBAQCClhigJzWN7Plefo
bBcHV0hdNrcCTExK
ZSc3KUM934qAIcKmBkuqDqAsjIudNGz015qg36ehmjkGPr+jk0sXGKTVeI2xTB+IHGCFEH+6Kxd9egYNE1CUT0UnuaVTarynjN4vG/ibMw/yMB
WifCJjSyNZnAlDHt0llO3WJWBA3QsLMAh15MXNMnScYDCNV+6eRDX5EcQ3GwGTgrTnpSNhyfM2+7M8eX0IuJtGrBlIbggAC+Ilnpqw2Xm87840
gS26VmsKGoYqsbKXK3bqkBe2B69A3BJhl6VCTYAMx7t0tO16jluUyJBduaiB9brh3Zl18Lwh9UbZAC52jkJVT84SFNAgMBAAEwDQYJKoZIhvcN
AQELBQADggEBAGtvPYOKR8kY56tKuyWkJXw3njMEioqFkLCVAeAlyCL09kfMASvpee8qd4iSt4/
lE1mEz2UXl2VzGact8rEQl+I3MbKX8osRkicVFnTFyvEL8+hsM9uuPzO/tFYh+jWYWE8s3Sy/
w5JYlEa4PJel4ymXowr7XhBEZ30P6L1weasuvOVVsEqVsWcziXrCwmY6h1M4aLWxHnBvJxFpdB3zK5yWiLsCYJ4yTDiYTXccPegQdpRmK3JIvA
/TMSfVYVRIJH0tbn6SZR29EZHEhY2P6bEpZIReSyoboIif9sjgbrJUGQv8RJLsmf/ZLbs+flD45orB7unk9a/s5TmFvbnGTIA=</wsse:
BinarySecurityToken><ds:Signature Id="SIG-925981AA89D6C41EB3144465584498225" xmlns:ds="http://www.w3.org/2000/
09/xmldsig#"><ds:SignedInfo><ds:CanonicalizationMethod Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#"><ec
:InclusiveNamespaces PrefixList="obs soapenv" xmlns:ec="http://www.w3.org/2001/10/xml-exc-c14n#"/></ds:
CanonicalizationMethod><ds:SignatureMethod Algorithm="http://www.w3.org/2000/09/xmldsig#rsa-sha1"/><ds:
Reference URI="#id-925981AA89D6C41EB3144465584498124"><ds:Transforms><ds:Transform Algorithm="http://
www.w3.org/2001/10/xml-exc-c14n#"><ec:InclusiveNamespaces PrefixList="obs" xmlns:ec="http://www.w3.org/2001/10
/xml-exc-c14n#"/></ds:Transform></ds:Transforms><ds:DigestMethod Algorithm="http://www.w3.org/2000/09/
xmldsig#sha1"/><ds:DigestValue>eXyR08F9i3u8qQ3bJVccW6e/es8=</ds:DigestValue></ds:Reference></ds:SignedInfo><ds
:SignatureValue>   NS45ULI7S81aXmchf37FS2y6va/4k4JjKzxi5xwgRsq7c1lEmmv/NaIYCo7RXCg0aVQT67nrsCIo
PR2Bcn5YOiYKQ1O16U4bv69KSg24oZY4Q+RDfeC7qlFKNXxl5bndd2KvpfRBd5Tj9bz5KJv6DeDJ
bETaas/9fWoLzPdIkZD+BEp/59NUn9DuYJGlj7tCyv1md7DxHsQLHJBaPp7uUyLSIn++Mc+hgNsk
e/q3e0vJ9IwHthDa0gQ0KFsXY+CL89/5Bxu4wdG7yvvSmzbxHotJS7ckXXl1eO5dqrtb2UxfOvmQ
peSOjWbyveSQ77d95rodn3AUxn55t3qG7diRew==</ds:SignatureValue><ds:KeyInfo Id="
KI-925981AA89D6C41EB3144465584498122"><wsse:SecurityTokenReference wsse11:TokenType="http://
docs.oasis-open.org/wss/2004/01/oasis-200401-wss-x509-token-profile-1.0#X509PKIPathv1" wsu:Id="
STR-925981AA89D6C41EB3144465584498123" xmlns:wsse11="http://docs.oasis-open.org/wss/
oasis-wss-wssecurity-secext-1.1.xsd"><wsse:Reference URI="#X509-925981AA89D6C41EB3144465584498121" ValueType=
"http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-x509-token-profile-1.0#X509PKIPathv1"/></wsse:
SecurityTokenReference></ds:KeyInfo></ds:Signature></wsse:Security></soapenv:Header>
```

<soapenv:Body> marker is an actual content of the message i.e. transaction data sent by the reporting entities.

Example:

```xml
<soapenv:Body wsu:Id="id-925981AA89D6C41EB3144465557434614" xmlns:wsu="http://
docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd">
    <obs:zapiszKomunikatZB>
        <komunikatZB>
            <idPodmiotuRaportujacego>
                <idBiznesowy>1234</idBiznesowy>
                <rodzajPodmiotuRaportujacego>AP</rodzajPodmiotuRaportujacego>
            </idPodmiotuRaportujacego>
            <idMPDPodmiotuRaportujacego>
                <idBiznesowy>1000165</idBiznesowy>
                <rodzajMPDPodmiotuRaportujacego>MPDAP</rodzajMPDPodmiotuRaportujacego>
            </idMPDPodmiotuRaportujacego>
            <komunikatTransakcja>
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                <lp>1</lp>
                <kodEAN>5909990840113</kodEAN>
                <liczbaBraku>5</liczbaBraku>
            </komunikatTransakcja>
            <komunikatTransakcja>
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                <lp>2</lp>
                <kodEAN>5909990907519</kodEAN>
                <liczbaBraku>2</liczbaBraku>
            </komunikatTransakcja>
            <komunikatTransakcja>
                <dataCzasTransakcji>2015-07-23T16:41:09.284136</dataCzasTransakcji>
                <lp>3</lp>
                <kodEAN>5909990335541</kodEAN>
                <liczbaBraku>2</liczbaBraku>
            </komunikatTransakcja>
        </komunikatZB>
    </obs:zapiszKomunikatZB>
</soapenv:Body>
```

5 Message structure

Entries in the „Format / Type" column shall mean as follows:

Date	Date saved in the format: YYYY-MM-DD
Ddate + time	Date and time saved in the format: YYYY-MM-DDTHH:MM:SS:MS (where T is a character separating date and time). UTC+01:00 time zone is default.
Number, (m,n)	A number containing maximally m digits, including n digits in the fraction part separated with a dot.
To n characters	Attribute value should be an inscription containing between 1 and n characters,
Character string	Any character string (maximally to 255 characters).
IdentyfikatorMPDPodmiotuMT	Data type described in the "**Błąd! Nie można odnaleźć źródła odwołania.**" chapter
IdentyfikatorKomunikatuMT	Data type described in chapter **Błąd! Nie można odnaleźć źródła odwołania.** "**Błąd! Nie można odnaleźć źródła odwołania.**".
IdentyfikatorPodmiotuRaportujacegoMT	Data type described in the "**Błąd! Nie można odnaleźć źródła odwołania.**" chapter.

Character coding in compliance with UTF-8.

5.1 Trade and stock message

Hierarchy level	Element	Attribute	Multi plicity	Format / Type	Description
0	komunikatOS				Trade and stock message.
		idPodmiotuRaportuja cego	1	Identyfika torPodmi otuRaport ujacegoM T	ID of the reporting entity.
		idMPDPodmiotuRapo rtujacego	0-1	Identyfika torMPDPo dmiotuMT	ID of place of business of the reporting entity.
		idKomunikatPierwot ny	0-1	Identyfika torKomun ikatuMT	ID of the message to which the actual message refers. The attribute applies to the situation, in which the actual message is a corrected or a new version of the previously sent message.
1	komunikatTransakcj a		1-n	Ordered by dataCzasT ransakcji	Trade and stock transaction.
		Lp	1	Number (8,0)	Ordinal number of transaction in the message.
		dataCzasTransakcji	1	Date + time	Date and time of transaction – with accuracy to milliseconds (subsequent transactions in the message should have different transaction time to make the time the indicator of transactions' order).
		rodzajTransakcji	1	To 3 characters	Type of trade and stock transaction. Values compliant with the glossary of types of wholesale or retail trade transactions: • ZKU - purchase (from the Polish entity), • ZPR - Import (from the EU entity), • ZIM - import (from the non-EU entity), • SPR - sales (to the Polish entity), • SWY - Export (to the EU entity), • SEK - Export (to the non-EU entity), • PKU - Receipt into the warehouse due to purchase(from the Polish entity), • PPR - Receipt into the warehouse due to import (from the EU entity), • PIM - Receipt into the warehouse due to import (from the non-EU entity), • WPR - Release from the warehouse due to sales (to the Polish entity), • WWY - Release from the warehouse due to export (to the EU entity), • WEK - Release from the warehouse due to export (to the non-EU entity), • WZR - Complaint return to supplier (decrease in stock),

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EZDROWIE P4

UNIA EUROPEJSKA
EUROPEJSKI FUNDUSZ
ROZWOJU REGIONALNEGO

Domain ICT Systems Supplementary to Health Information System project
co-financed by the European Union from the European Regional Development Fund and the state budged in the priority axis "Information society –
development of electronic administration" of the Innovative Economy Operational Programme 2007-2013
"Grants for innovations" "We invest in your future"

Hierarchy level	Element	Attribute	Multiplicity	Format / Type	Description
					• PZR - Acceptance of return from the recipient (increase in stock), • MWG - Recall in the CPI decision, • WWG - Return due to recall to the supplier (decrease in stock), • PWY - Acceptance of return due to recall from recipient (increase in stock) , • PM+ - Warehouse transfer within the assets of business entity – to increase in stock, • WM- - Warehouse transfer within the assets of business entity – to decrease in stock, • PZO - Batch release , • WUT - Disposal due to expiry date, • WUI - Disposal for other reason than expiry date, • WRO - Internal spending for hospital ward, • WRW - Other internal spending, • MWO - Suspension in trade, • MDO - authorised to the market, • IBO - Opening balance, • IR+ - Stock difference – to increase in stock, IR- - Stock difference – to decrease in stock.
		rodzajPodmDrugaStrona	0-1	To 3 characters	Type of entity, with which the transaction of trade in medicinal products is made. The Glossary of types of entities with which the transaction of trade in medicinal products is made: • PO - marketing authorisation holder, • HU - entity running a pharmaceutical wholesale, • AP - entity running a pharmacy (retail, dispensary, company's pharmacy, other pharmacy than the hospital pharmacies and pharmaceutical departments), • PW – Healthcare entity other than PR, • PR - Healthcare entity performing its activity as individual professional practice or group practice of physicians, dentists, nurses and midwives, • FP –Polish business entity, other than classified above , • FZH – foreign business entity running a pharmaceutical wholesale, • FZO – foreign business entity with the status of marketing authorisation holder, • FZI – foreign business entity, other than classified above, • OF – natural person.

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EZDROWIE P4

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Hierarchy level	Element	Attribute	Multi plicity	Format / Type	Description
					– not applicable for transactions, in which entering the other party (table: Types of transactions in the trade and stock message in the „Glossary of terms" chapter) is not required
		idBiznesowyPodmDrugaStrona	0-1	Character string	ID of the entity, with which the transaction is made. The following values are expected: • For the entities registered in Poland (i.e. of Polish HU, AP, PW, PR, FP type) – 9-digit REGON (National Official Register of Business Entities No.). • For marketing authorisation holder (i.e. of PO type) – VAT ID (NIP). • For entities other than domestic undertaking (i.e. of FZH, FZO, FZI type), tax identification number in the state of its registration. In the case of lack of such number, any other ID (i.e. ID from the local files of the contractor in the IT system of the reporting entity). • For natural person (i.e. of OF type) – not entered.
		krajPodmDrugaStrona	0-1	To 2 characters	State of entity, with which the transaction is made – state code compliant with 2-character code of ISO_3166-1. Required for foreign undertakings (rodzajPodmDrugaStrona: FZH, FZO, FZI).
		nazwaPodmDrugaStrona	0-1	Character string	Name of entity, with which the transaction is made – compliant with KRS/CEIDG (National Court Register/Central Register and Information on Business Activity) for the entities registered in Poland (i.e. of rodzajPodmDrugaStrona type from the set: PO, HU, AP, PW, FP, PR). • Not applicable to natural person (rodzajPodmDrugaStrona==OF).
		adresPodmDrugaStrona	0-1	Character string	Address of entity, with which the transaction is made: • is not (does not need to be) entered for the entities running wholesales, pharmacies, healthcare entities, marketing authorisation holders (i.e. of PO, HU, AP, PW type) – address data of the entity will be acquired from a register in the ZSMOPL applicable for the type of entity at the message validation stage. • should be entered for the Polish entities (FP) other than the healthcare entities, pharmacies, wholesales, marketing authorisation holders and for the foreign entities (FZH, FZO, FZI).

Hierarchy level	Element	Attribute	Multi plicity	Format / Type	Description
					is not entered when the entity is the natural person (OF).
		idMPDPodmDrugaStrona	0-1	IdentyfikatorMPDPodmiotuDrugaStronaMT	ID of the place of business of the entity, with which the transaction is made. The values from the following sets are expected: • For the entity of AP type, ID from the Register of Pharmacies is expected – at the stage of message validation, validated on the basis of the register of pharmacies. • For the entity of HU type, ID from the Register of Pharmaceutical Wholesales is expected - at the stage of message validation, validated on the basis of the register of pharmaceutical wholesales. • For the healthcare entity (PW), the ID of the place of business should be the 14-digit REGON of the healthcare institution of that entity - at the stage of message validation, validated on the basis of the register of healthcare entities. Not applicable to the remaining entities (i.e. of: PO, PR, FP, FZH, FZI, FZO, OF type).
		nrDokSprzZakRefDokMag	0-n	Character string	Number of sales/purchase document relevant to the warehouse document – number required for documents of warehouse document types, only for the following (rodzajTransakcji): • Receipt into the warehouse due to purchase(from the Polish entity) – PKU • Receipt into the warehouse due to import (from the EU entity) - PPR • Receipt into the warehouse due to import (from the non-EU entity) – PIM • Release from the warehouse due to sales (to the Polish entity) – WPR • Release from the warehouse due to export (to the EU entity) - WWY • Release from the warehouse due to export (to the non-EU entity) – WEK For PKU, PPR, PIM documents, this should be the number of the external sales invoice – number of document assigned by the invoice issuer (from which the goods are purchased). For WPR, WWY, WEK documents, this should be the number of own (in-house) sales invoice. Due to the relation between the warehouse receipt/release document and purchase/sales document of „one to one" type e.g. one warehouse receipt document

Hierarchy level	Element	Attribute	Multi plicity	Format / Type	Description
					can apply to several purchase documents, the attribute is a list of values (multiplicity: 0..*).
		czyTransakcjaJestKorekta	1	Number (1,0)	Specifies, whether the document is a correction: • 1 – document is a correction • 0 – document is not a correction.
		dataDokKorygowanego	0-1	Date + time	Date and time of corrected document – with accuracy to milliseconds – required only, when the transaction is a correction (if czyTransakcjaJestKorekta==1).
		nrDokKorygowanego	0-1	Character string	Number of corrected document – required only, when the transaction is a correction (if czyTransakcjaJestKorekta==1).
		przyczynaRoznicyInwentaryzacyjnej	0-1	Character string	Reason of stock difference – description field required, when the transaction is Stock difference i.e. rodzajTransakcji: • IR+, • IR-.
		rodzajDokZrodlSprz	0-1	To 2 characters	Type of source sales document. Attribute required only for transactions, where rodzajTransakcji=='SPR'. Type of source sales document – according to the glossary of type of source document of sales transaction: • FA – invoice, • PA – receipt.
		nrDokZrodl	1	Character string	Number of source transaction document – number of invoice or warehouse document, receipt, number of any other document assigned by the reporting entity.
		nrDokZewnetrznego	0-1	Character string	Number of external document (number of document assigned by the issuer) – required for revenue transactions, from the "Z" register (purchase) i.e. of rodzajTransakcji type from the set: • ZKU - Purchase (from the Polish entity), • ZPR - Import (from the EU entity), • ZIM - Import (from the non-EU entity).
		nrERecepty	0-1	Character string	Number of e-prescription – attribute filled in only in the case of sales (rodzajTransakcji=='SPR') to natural person (rodzajPodmDrugaStrona==OF), only for e-prescriptions.
		podstawaWydaniaLeku	0-1	To 2 characters	Glossary of basis for drug release – according to the basic glossary of drug release: • RP – prescription, • ZA – requisition, • ZL - order, • ND – not applicable.
2	komunikatTransakcjaOSPoz		1-n	Ordered by lp	Class of item of document being the trade and stock transaction. One object KomunikatTransakcja is correlated to – one

Hierarchy level	Element	Attribute	Multi plicity	Format / Type	Description
					or more items (corresponding to the items from the source transaction document). It is projected that document items will be ordered by Ip attribute and the value of this attribute will be unique in the message.
		Lp	1	Number (8,0)	Ordinal number of the document item.
		nrPozycjiDokZrodl	1	Number (8,0)	Number of item according to the order from the source document, corresponding to the ordinal number of the item in the source document. Ordinal numbers are not supposed to be continuous, due to the fact that not all items in the source document need to be monitored.
		czyProduktWydanyZ Refundacja	0-1	Number (1,0)	Marker specifying, whether the medicinal product is dispensed with reimbursement. Expected only in the case, in which transaction applies to sales (rodzajTransakcji==SPR) to natural person (rodzajPodmDrugaStrona==OF). The marker specifies, whether the medicinal product was dispensed with reimbursement: • 0 – dispensed without reimbursement • 1 – dispensed with reimbursement • 2 – not applicable.
		czyDotImportuDocelI nterw	1	Number (1,0)	Marker specifying, whether the transaction item applies to direct or intervention import: • 0 – does not apply to direct or intervention import • 1 – applies to to direct or intervention import.
		kodEAN	0-1	Character string	Code of medicinal product – filled in when the transaction does not apply to direct or intervention import (if czyDotImportuDocelInterw==0). If the transaction apply to direct or intervention import (if czyDotImportuDocelInterw==1) – the code of medicinal product can not be used. • EAN code or equivalent. EAN code is validated at the stage of message validation.
		nrZapotrzImportuDoc elInterw	0-1	Character string	Number of requisition for drugs from direct or intervention import – filled in when the transaction applies to direct or intervention import (if czyDotImportuDocelInterw==1). Requisition number; it is validated at the stage of message validation on the basis of recorded requisitions. Exemplary number formats are entered below: • MZ/NNNNN/RR – for requisition • D/NNNNN/RR – for dietary food

Hierarchy level	Element	Attribute	Multi plicity	Format / Type	Description
					• DOP/NNNNN/RR – for consents issued in the Pharmaceutical Law Act, Article 4(8) • Consent/NNNNN/RR – for decisions issued in the Pharmaceutical Law Act, Article 4(9) where NNNNN means 5-digit subsequent number and RR means two last digits of the year.
		Seria	0-1	Character string	Batch of medicinal product.
		Ilosc	0-1	Number (18,5)	Quantity of medicinal product – should be entered, when the transaction is not a correction (czyTransakcjaJestKorekta==0). The expected value greater or equal to 0. Due to possible sales in the quantity being not an integer, e.g. sales of a single blister from packaging, the accuracy of numeric field was set for 4 decimal places.
		Wartosc	0-1	Number (18,4)	Net value of medicinal product – without consideration of discounts, rebates and allowances. It should be entered, when the transaction is not a correction (czyTransakcjaJestKorekta==0).
		iloscPrzedKorekta	0-1	Number (18,4)	Quantity of medicinal product before correction – should be entered, when the transaction is a correction (czyTransakcjaJestKorekta==1).
		iloscPoKorekcie	0-1	Number (18,4)	Quantity of medicinal product after correction – should be entered, when the transaction is a correction (czyTransakcjaJestKorekta==1). The expected value greater or equal to 0.
		wartoscPrzedKorekta	0-1	Number (18,4)	Net value of medicinal product - without consideration of discounts, rebates and allowances. It should be entered, when the transaction is a correction (czyTransakcjaJestKorekta==1).
		wartoscPoKorekcie	0-1	Number (18,4)	Net value of medicinal product - without consideration of discounts, rebates and allowances. It should be entered, when the transaction is a correction (czyTransakcjaJestKorekta==1).
		przyczynaKorekty	0-1	Character string	Reason for correction – description field. Information required, when the transaction is a correction (czyTransakcjaJestKorekta==1).
3	komunikatTransakcjaOSPozZapMT		0-1		Summary of product characteristics for medicinal products from direct and intervention import – the object should exist, when the transaction item concerns direct or intervention import. i.e.

Hierarchy level	Element	Attribute	Multi plicity	Format / Type	Description
					komunikatTransakcjaOSPoz.czyDotImportuDocelInterw==1). Summary of product characteristics consists in the following fields: - commercial code (EAN or equivalent), - commercial name, - international name, - pharmaceutical form, - dose, - packaging size, - name of marketing authorisation holder (MAH) , - country of origin.
		kodEAN	1	Character string	Code of medicinal product. EAN code or equivalent.
		nazwaHandlowa	1	Character string	Commercial name.
		nazwaMiedzynarodowa	1	Character string	International name.
		Postac	1	Character string	Form.
		Dawka	1	Character string	Dose.
		wielkoscOpakowania	1	Character string	Packaging size.
		Producent	1	Character string	Name of marketing authorisation holder (MAH)
		krajPochodzenia	1	Character string	Country of origin of medicinal product – state code compliant with 2-character code of ISO_3166-1.
3	komunikatTransakcjaOSPozStanMT		0-1		Stock information – the object should exist, if the transaction (komunikatTransakcja.rodzajTransakcji) is in one of the following types: PKU, PPR, PIM, WPR, WWY, WEK, WZR, PZR, MWG, WWG, PWY, PM+, WM-, PZO, WUT, WUI, WRO, WRW, MWO, MDO, IBO, IR+, IR-.
		stanIloscDostepnySeria	1	Number (18,4)	Quantity of medicinal product in stock in the warehouse of the place of business (after transaction) - stock available for trade for medicinal product batch.
		stanWartoscDostepnySeria	1	Number (18,4)	Value of medicinal product in stock in the warehouse of the place of business (after transaction) - stock available for trade for medicinal product batch..
		stanIloscWstrzWycofSeria	1	Number (18,4)	Quantity of medicinal product in stock in the warehouse of the place of business (after transaction) - stock suspended or recalled for trade for medicinal product batch.
		stanWartoscWstrzWycofSeria	1	Number (18,4)	Value of medicinal product in stock in the warehouse of the place of business (after transaction) - stock suspended or recalled for trade for medicinal product batch.

Hierarchy level	Element	Attribute	Multiplicity	Format / Type	Description
		stanIloscDostepny	1	Number (18,4)	Quantity of medicinal product in stock in the warehouse of the place of business (after transaction) - stock available for trade for all batches of medicinal product in total.
		stanWartoscDostepny	1	Number (18,4)	Value of medicinal product in stock in the warehouse of the place of business (after transaction) - stock available for trade for all batches of medicinal product in total.
		stanIloscWstrzWycof	1	Number (18,4)	Quantity of medicinal product in stock in the warehouse of the place of business (after transaction) - stock suspended or recalled for trade for all batches of medicinal product in total.
		stanWartoscWstrzWycof	1	Number (18,4)	Value of medicinal product in stock in the warehouse of the place of business (after transaction) - stock suspended or recalled for trade for all batches of medicinal product in total.

5.2 Shortage report message

Hierarchy level	Element	Attribute	Multi plicity	Format / Type	Description
0	komunikatZB				Shortage report message.
		idPodmiotuRaportuja cego	1	Identyfika torPodmi otuRaport ujacegoM T	ID of the reporting entity.
		idMPDPodmiotuRapo rtujacego	1	Identyfika torMPDPo dmiotuMT	ID of place of business of the reporting entity.
		idKomunikatPierwot ny	0-1	Identyfika torKomun ikatuMT	ID of the message to which the actual message refers. The attribute applies to the situation, in which the actual message is a corrected or a new version of the previously sent message.
1	komunikatTransakcj a		1-n	Ordered by dataCzasT ransakcji	Transaction of report of shortage of medicinal product.
		Lp	1	Number (8,0)	Ordinal number of transaction in the message.
		dataCzasTransakcji	1	Date + time	Date and time of transaction (shortage reports) - with accuracy to milliseconds (subsequent transactions in the message should have different transaction time to make the time the indicator of transactions' order).
		NumberBraku	1	Number (8,0)	Number of packaging of medicinal product reported as missing (of shortage).
		kodEAN	1	Character string	EAN code of medicinal product (or any other ID equivalent to EAN code) of the reported as missing.

5.3 Delivery planning message

Hierarchy level	Element	Attribute	Multi plicity	Format / Type	Description
0	komunikatPD				Delivery planning message.
		idPodmiotuRaportuja cego	1	Identyfika torPodmi otuRaport ujacegoM T	ID of the reporting entity.
		idKomunikatPierwot ny	0-1	Identyfika torKomun ikatuMT	ID of the message to which the actual message refers. The attribute applies to the situation, in which the actual message is a corrected or a new version of the previously sent message.
1	komunikatTransakcj a		1-n	Ordered by dataCzasT ransakcji	Transaction of planning the deliveries of medicinal product.
		lp	1	Number (8,0)	Ordinal number of transaction in the message.
		dataCzasTransakcji	1	Date + time	Date and time of transaction (plan reporting) - with accuracy to milliseconds (subsequent transactions in the message should have different transaction time to make the time the indicator of transactions' order).
		kodEAN	1	Character string	EAN code of medicinal product (or any other ID equivalent to EAN code) to which the delivery planning transaction applies.
		rodzajTransakcji	1	To 2 characters	Type of delivery planning transaction. Values compliant with the glossary of delivery planning transactions: • PL – delivery plan, • WS – suspension of deliveries, • WZ – resumption of deliveries, • ZA – end of deliveries.
		dataPoczatkowa	1	Date	Starting date of the period to which the planning process applies. At the message validation stage, it is checked whether the condition of entering of the future date in relation to the date of reporting the plan (greater or equal to the Data(dataCzasTransakcji)) is met. • When the transaction type is the "delivery plan" (rodzajTransakcji==PL) the date specifies the beginning of the period, to which the detailed plan entered in the komunikatTransakcjaPDPlan refers. • When the transaction type is the "suspension of deliveries" (rodzajTransakcji==WS), the date

Hierarchy level	Element	Attribute	Multiplicity	Format / Type	Description
					specifies the moment of suspension of deliveries. • When the transaction type is the "resumption of deliveries" (rodzajTransakcji==WZ), the date specifies the moment of resumption of deliveries. • When the transaction type is the "end of deliveries" (rodzajTransakcji==ZA) the date specifies the moment of ending of deliveries.
		dataKoncowa	0-1	Date	End date – end date of the period, to which the planning process applies: • When the transaction type is the "delivery plan" (rodzajTransakcji==PL), the date is required. End date should not be earlier than the starting date. It is required to enter the delivery plans for the periods of at least 12-month, the end date should meet the condition ">= starting date + one year". • When the transaction type is the "suspension of deliveries" (rodzajTransakcji==WS), the end date is optional, in this case it is the „date of expected resumption". • When the transaction type is the "resumption of deliveries" (rodzajTransakcji==WZ), the end date is not required. • When the transaction type is the "end of deliveries" (rodzajTransakcji==ZA), the end date is not required.
		uzasadnWstrzymZakoncz	0-1	To 256 characters	Reason for suspension or end of deliveries – required, if the transaction is of the type (rodzajTransakcji): • WS – suspension of deliveries or • ZA – end of deliveries. Short description field (up to 256 characters).
2	komunikatTransakcjaPDPlan		0-1	Ordered by year, week	Contains detailed data of delivery plan in the delivery planning message. Applies to the transactions, for which komunikatTransakcja.rodzajTransakcji==PL (delivery plan). Objects ordered by criterion {year, week}.
		wielkosc	1	Number (8,0)	Delivery volume – planned number of unit packaging of medicinal product in delivery.
		rok	1	Number (4,0)	Year of planned delivery. Entered year and number of week in the year should fall within the period specified by the starting and end date (komunikatTransakcja.dataPoczatkowa and dataKoncowa).

Hierarchy level	Element	Attribute	Multi plicity	Format / Type	Description
		tydzien	1	Number (2,0)	Number of week in the year of planned delivery. Week numbering in compliance with the ISO-8601 standard. Entered year and number of week in the year should fall within the period specified by the starting and end date (komunikatTransakcja.dataPoczatkowa and dataKoncowa).

5.4 Check status message

Hierarchy level	Element	Attribute	Multiplicity	Format / Type	Description
0	komunikat				Check status message
		identyfikatorKomuniaktu	1	Number (18,0)	Message ID generated by the system after sending one of below messages: • Trade and stock • Shortage report • Delivery planning

6   Description of helper types/class

Element	Attribute	Multiplicity	Format	Description
IdentyfikatorMPDPodmiotuMT				ID of the place of business of the reporting entity.
	idBiznesowy	1	Character string	Business ID of the place of business of the reporting entity – from the domain specified in the attribute **rodzajMPDPodmiotuRaportujacego:** • if rodzajMPDPodmiotuRaportujacego == 'MPDHU', ID from the Register of Wholesales. • if rodzajMPDPodmiotuRaportujacego == 'MPDAP', ID from the Register of Pharmacies. • if rodzajMPDPodmiotuRaportujacego == 'MPDPL', ID of healthcare institution of the healthcare entity from the Register of Healthcare Entities – 14-digit REGON.
	rodzajMPDPodmiotuRaportujacego	1	To 5 characters	Type of place of business of the reporting entity: • MPDHU – pharmaceutical wholesale holding the ID in the Register of Pharmaceutical Wholesales. • MPDAP – pharmacy holding the ID in the Register of Pharmacies. • MPDPL – healthcare institution of the healthcare entity holding the ID (14-digit REGON) in the Register of Healthcare Entities in the Healthcare Entities resources.
IdentyfikatorMPDPodmiotuDrugaStronaMT				ID of the place of business of the reporting entity.
	idBiznesowy	0-1	Character string	Business ID of the place of business of the reporting entity – from the domain specified in the attribute **rodzajMPDPodmiotuRaportujacego:** • if rodzajMPDPodmiotuRaportujacegoDrugaStrona == 'MPDHU', ID from the Register of Wholesales. • if rodzajMPDPodmiotuRaportujacegoDrugaStrona == 'MPDAP' ID from the Register of Pharmacies. • Jeśli rodzajMPDPodmiotuRaportujacegoDrugaStrona == 'MPDPL', ID of healthcare institution of the healthcare entity from the Register of Healthcare Entities – 14-digit REGON.

Element	Attribute	Multiplicity	Format	Description
				– not applicable to transactions, for which entering of the other party is not required (table Types of transactions in the trade and stock message in the "Glossary of terms" chapter)
	rodzajMPDPodmiotuRaportujacegoDrugaStrona	0-1	To 5 characters	Type of place of business of the reporting entity: • MPDHU – pharmaceutical wholesale holding the ID in the Register of Pharmaceutical Wholesales. • MPDAP – pharmacy holding the ID in the Register of Pharmacies. • MPDPL – healthcare institution of the healthcare entity holding the ID (14-digit REGON) in the Register of Healthcare Entities in the Healthcare Entities resources. – not applicable to transactions, for which entering of the other party is not required (table Types of transactions in the trade and stock message in the "Glossary of terms" chapter)
IdentyfikatorKomunikatuMT				Message ID.
	id	1	Number (19,0)	Message ID.
IdentyfikatorPodmiotuRaportujacegoMT				ID of the reporting entity.
	idBiznesowy	1	Character string	Business ID of the place of business of the reporting entity – from the domain specified in the attribute **rodzajPodmiotuRaportujacego**: • if rodzajPodmiotuRaportujacego == 'PO', tax identification number (NIP), VATIN or tax identification number in the state, in which the entity is registered, preceded by the symbol of the country compliant with 2-character ISO_3166-1 code entered at the stage of entity's registration. • if rodzajPodmiotuRaportujacego from the {'PA', 'PF', 'PL'} set, ID is 12-digit number of the register book from the Register of Healtcare Entities. • if rodzajPodmiotuRaportujacego from the {'HU', 'AP'} set, ID is (9-digit) REGON entered at the stage of entity's registration. In the case of applications for creating an account (rodzajWniosku=='KONTO') idBiznesowy is established when the application obtains the status=='ZAAKCEPTOWANY' (APPROVED) (for lower statuses idBiznesowy is not estblished).
	rodzajPodmiotuRaportujacego	1	To 2 characters	Type of reporting entity. Values according to the glossary of types of entities reporting the trade in monitored products: • PO - marketing authorisation holder. • HU - entity running a pharmaceutical wholesale. • AP - business entity running retail pharmacies, dispensaries, company's

Element	Attribute	Multiplicity	Format	Description
				pharmacies, other outside PA and PF categories, within its structure.
				• PA - business entity running a hospital pharmacy within its structure.
				• PF - business entity running a pharmaceutical department within its structure.
				• PL - business entity running no pharmacy or pharmaceutical department within its structure.

7   Message validation rules

The "Messaging model" chapter presents the messaging model, whereas clause 3 of this chapter contains a conceptual description of the method of message validation. The general scheme is universal for all types of messages. There are however certain differences resulting from the structure of individual messages. The table below presents detailed validation schemes for the individual types of messages.

Trade and stock message

Validation order		Rule domain code
1	Message header validation	KM
2	Validation of header data of the trade and stock transaction document	TROS
3	Validation of item data of the trade and stock transaction document	TROSPOZ

Shortage report message

Validation order		Rule domain code
1	Message header validation	KM
2	Validation of shortage report transaction data	TRZB

Delivery planning message

Validation order		Rule domain code
1	Message header validation	KM
2	Validation of delivery planning transaction data	TRPD
3	Validation of item data in the delivery planning transaction	TRPDPLAN

7.1 Message validation for compliance with template

During validation the message is checked for compliance with the scheme (XML Schema). If any non-compliance is identified, a reply with code 500 containing information on non-compliance with scheme is sent the IT system of the reporting entity. Such message is rejected in full and not recorded in the ZSMOPL (and therefore unavailable on website).

Exemplary errors causing reply with error 500 by the Web Service and discontinuation of further validation:

- Invalid symbol of transaction type.
- Invalid specification of the type of entity, with which the transaction is made.
- No date and time of transaction.
- Value of attribute, which should specify, whether the transaction is a correction, is not an integer.
- Value of marker, which specifies, whether the medicinal product was dispensed with reimbursement, is not an integer.
- Value of marker, which specifies, whether the transaction item concerns direct or intervention import, is not an integer.
- Invalid specification of the type of source document of sales transaction.
- Invalid specification of the basis for drug dispensing.
- Invalid type of delivery planning transaction.
- Incomplete number of product shortage.

Exemplary Web Service replies to such errors:

- <faultstring>Unmarshalling Error: cvc-enumeration-valid: Value 'AAA' is not facet-valid with respect to enumeration '[ZKU, ZPR, ZIM, SPR, SWY, SEK, PKU, PPR, PIM, WPR, WWY, WEK, WZR, PZR, MWG, WWG, PWY, PM+, WM-, PZO, WUT, WUI, WRO, WRW, MWO, MDO, IBO, IR+, IR-]'. It must be a value from the enumeration.</faultstring>
- <faultstring>Unmarshalling Error: cvc-enumeration-valid: Value 'AAA' is not facet-valid with respect to enumeration '[PO, HU, AP, PA, PF, PL]'. It must be a value from the enumeration. .</faultstring>
- <faultstring>Unmarshalling Error: Not a number: A</faultstring>
- <faultstring>Unmarshalling Error: cvc-datatype-valid.1.2.1: '2018-02-26' is not a valid value for 'dateTime'.</faultstring>

If at this stage validation is negative, it is recommended to check the message to be sent for compliance with the scheme.

If validation is positive (validation for compliance with XML Schema), the message has the assigned ID and is saved in ZSMOPL (awaiting validation described in chapter 3, clause 3).

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7.2 Message header validation

Rule domain code	Rule no.	Consequences, if the condition is not met	Description of error or warning	Error or warning code
KM	1	Error	Non-compliance of ID of the reporting entity with certificate imported on the ZSMOPL website by the reporting entity.	KM1
KM	2	Error	Non-compliance of ID or type of the reporting entity with imported certificate or the entered ID of the place of business of the reporting entity or type of place of business is non-compliant with the structure of places of business of this entity.	KM2
KM	3	Error	Invalid ID of the original message entered.	KM3
KM	4	Error	Message is a duplicate.	KM4

7.3 Validation of transactions in the trade and stock message

Rule domain code	Rule no.	Consequences, if the condition is not met	Description of error or warning	Error or warning code
TROS	2	Error	Entered REGON (National Official Register of Business Entities no.) of the entity, with which the transaction is made, is not found in the register of healthcare entities.	TROS2
TROS	3	Error	Entered ID of marketing authorisation holder, with which the transaction is made, is not found in the register of marketing authorisation holders.	TROS3
TROS	4	Error	Entered REGON of the entity, with which the transaction is made, has invalid structure.	TROS4
TROS	5	Warning	When specifying the type of entity, with which the transaction is made, as natural person, entering its ID is not required.	TROS5
TROS	6	Error	No tax identification number of a foreign company (entity, with which the transaction is made) is entered.	TROS6
TROS	7	Error	Invalid or missing code of state of a foreign company (entity, with which the transaction is made).	TROS7
TROS	8	Warning	When specifying the type of entity, with which the transaction is made, as natural person, entering of the name of entity is not required.	TROS8
TROS	9	Error	No name of entity, with which the transaction is made, is specified.	TROS9
TROS	10	Warning	When specifying the type of entity, with which the transaction is made, as natural person, entering of the address of entity is not required.	TROS10
TROS	11	Error	No address of entity, with which the transaction is made, is entered	TROS11
TROS	12	Error	Entered ID of the place of business of the entity, with which the transaction is made, is not found in the Register of Pharmacies.	TROS12

TROS	13	Error	Entered ID of the place of business of the entity, with which the transaction is made, is not found in the Register of Pharmaceutical Wholesales.	TROS13
TROS	14	Error	Podany identyfikator miejsca prowadzenia działalności podmiotu, with which the transaction is made, is not found in the register of healthcare entities in the healthcare institution resources identified with 14-digit REGON no.	TROS14
TROS	15	Warning	ID of place of business of the entity, with which the transaction is made, is entered, although not required for entities in the type of: PO, PR, FP, FZH, FZI, FZO, OF.	TROS15
TROS	17	Error	No purchase document number corresponding to the warehouse receipt document is entered.	TROS17
TROS	18	Error	No sales document number corresponding to the warehouse release document is entered.	TROS18
TROS	19	Error	Invalid value of attribute that should specify, whether the transaction is a correction.	TROS19
TROS	20	Error	No date of corrected document.	TROS20
TROS	21	Error	No number of corrected document.	TROS21
TROS	22	Error	No reason of inventory difference specified.	TROS22
TROS	24	Error	Invalid value of attribute, which specify source sale transaction document	TROS24
TROS	26	Error	No number of external document (number of document assigned by the issuer).	TROS26
TROS	27	Error	Invalidly entered number of e-prescription, which is not required for the entered type of transaction and type of entity, with which the transaction is made.	TROS27
TROS	29	Error	Invalid specification of the basis for drug dispensing for the entered type of transaction and type of entity, with which the transaction is made.	TROS29

TROSPOZ	30	Error	Message lacks attribute <CzyProduktWydanyZRefundacja>, which is required in case of sale transaction (SPR) with a natural person (OF).	TROSPOZ30
TROSPOZ	31	Error	Invalid value of marker, which specifies, whether the transaction item concerns direct or intervention import.	TROSPOZ31
TROSPOZ	32	Error	Entered code of medicinal product is not found in the register of monitored products.	TROSPOZ32
TROSPOZ	33	Error	Entered code of medicinal product in the komunikatTransakcjaOSPoz element is not required when the transaction concerns direct or intervention import.	TROSPOZ33
TROSPOZ	34	Error	Entered number of requisition for drugs from direct or intervention import is not found in the register of requisitions.	TROSPOZ34
TROSPOZ	35	Error	Entered number of requisition for drugs from direct or intervention import is not required, when the transaction does not apply to direct or intervention import.	TROSPOZ35
TROSPOZ	36	Error	One or more information fields consisting in summary of product characteristics for medicinal product from direct or intervention import is empty.	TROSPOZ36
TROSPOZ	37	Error	Entered quantity of medicinal product is not required, when the transaction is a correction.	TROSPOZ37
TROSPOZ	38	Error	Entered net value of medicinal product is not required, when the transaction is a correction.	TROSPOZ38
TROSPOZ	39	Error	Entered quantity of medicinal product before correction is not required, when the transaction is not a correction.	TROSPOZ39
TROSPOZ	40	Error	Entered quantity of medicinal product after correction is not required, when the transaction is not a correction.	TROSPOZ40
TROSPOZ	41	Error	Entered net value of medicinal product before correction is not required, when the transaction is a correction.	TROSPOZ41

TROSPOZ	42	Error	Entered net value of medicinal product after correction is not required, when the transaction is a correction.	TROSPOZ42
TROSPOZ	43	Error	No reason for correction required, when the transaction is a correction, is entered.	TROSPOZ43
TROSPOZ	44	Error	No information on stocks required for the specified type of transaction is entered.	TROSPOZ44
TROSPOZ	70	Error	Invalid code of medicinal product	TROSPOZ70

7.4 Transaction validation in the shortage report message

Rule domain code	Rule no.	Consequences, if the condition is not met	Description of error or warning	Error or warning code
TRZB	1	Warning	Commercial EAN code of the product, which is not subject to monitoring, is entered.	TRZB1
TRZB	2	Error	Number of product shortage in a value lesser or equal to zero or incomplete value is entered.	TRZB2

7.5 Transaction validation in the delivery planning message

Rule domain code	Rule no.	Consequences, if the condition is not met	Description of error or warning	Error or warning code
TRPD	1	Warning	Commercial EAN code of the product, which is not subject to planning, is entered.	TRPD1
TRPD	3	Error	Entered starting date of planning is earlier than the reporting date.	TRPD3
TRPD	4	Error	Entered end data of planning is earlier than the starting date.	TRPD4
TRPD	5	Error	Entered end data of plan in the "delivery plan" transaction (PL) should be later by at least one year from the starting date of the plan.	TRPD5
TRPD	6	Warning	Entered end data of plan – end date is not required for transaction of "resumption of delivery" (WZ) and "end of deliveries" (ZA) types.	TRPD6
TRPD	7	Error	No required justification for suspension or ending of deliveries for transaction in the "resumption of delivery" (WZ) and "end of deliveries" (ZA) types.	TRPD7
TRPD	8	Error	No plan items in the "delivery plan" transaction (PL) are specified.	TRPD8
TRPDPLAN	9	Error	Entered volume of delivery in the plan item is lesser than zero.	TRPDPLAN9
TRPDPLAN	10	Error	Entered value of year and number of week in the year in the plan item does not fall within the period specified by the starting date and end date of the delivery plan.	TRPDPLAN10
TRPDPLAN	11	Error	Entered value of year and number of week in the year in the delivery plan item is incompliant with the ISO-8601 standard.	TRPDPLAN11

8 Message header specification

Application of the reporting entities should send messages with signature and certificate used for signature. This information should be contained in the message header (<soapenv:Header>). The header should include the "wsse:Security" element to ensure security in the SOAP protocol. This element should have defined namespaces by adding of the following attributes:

1. xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd"
2. xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"

The "wsse:Security" element consists in the following elements:

1. wsse:BinarySecurityToken element – containing the certificate chain with public key
    1.1. Define the attribute: EncodingType="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-soap-message-security-1.0#Base64Binary"
    1.2. Define the attribute: ValueType="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-x509-token-profile-1.0#X509PKIPathv1"
    1.3. Define the attribute wsu:Id with unique element ID
2. ds:Signature element – contains e-signature of the <soapenv:Body>section content
    2.1. Define the namespace attribute: xmlns:ds="http://www.w3.org/2000/09/xmldsig#"
    2.2. ds:SignedInfo element
        2.2.1. ds:CanonicalizationMethod element
            2.2.1.1. Define the attribute: Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#"
        2.2.2. element ds:SignatureMethod
            2.2.2.1. Define the attribute: Algorithm="http://www.w3.org/2000/09/xmldsig#rsa-sha1"
        2.2.3. ds:Reference element
            2.2.3.1. Define the URI attribute, value of which is the reference for the oapenv:Body element (URI values should be identical to the value of wsu:ld attribute preceded with hash #)
            2.2.3.2. Define the element: ds:Transforms
                2.2.3.2.1. Define the element: ds:Transform
                    2.2.3.2.1.1. Define the attribute: Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#"
            2.2.3.3. Define the element: ds:DigestMethod
                2.2.3.3.1. Define the attribute: Algorithm="http://www.w3.org/2000/09/xmldsig#sha1"
            2.2.3.4. Define the element: ds:DigestValue
    2.3. ds:SignatureValue element with signature value
    2.4. ds:KeyInfo element
        2.4.1. wsse:SecurityTokenReference element
            2.4.1.1. wsse:Reference element

2.4.1.1.1. Define the URI attribute as a reference i.e. with the value identical as the value of wsu:Id of the wsse:BinarySecurityToken element preceded with hash.

9 Import of delivery declarations

In order to add declarations of deliveries via the website, go to the „Delivery planning" section from the main page, click „Import of delivery declarations", and choose xml file.

The file structure looks like the structure of delivery plan message body described in the **Błąd! Nie można odnaleźć źródła odwołania. Błąd! Nie można odnaleźć źródła odwołania.** chapter. The file has no soapenv:Header section and soapenv:Envelope and soapenv:Body markers.

Example:

```xml
<obs:zapiszKomunikatPD xmlns:obs="http://csioz.gov.pl/zsmopl/mt/">
 <komunikatPD>
    <!--Optional:-->
    <idKomunikatPierwotny>
       <id>1</id>
    </idKomunikatPierwotny>
    <idPodmiotuRaportujacego>
       <idBiznesowy>2427</idBiznesowy>
       <rodzajPodmiotuRaportujacego>PO</rodzajPodmiotuRaportujacego>
    </idPodmiotuRaportujacego>
    <!--1 or more repetitions:-->
    <komunikatTransakcjaPD>
       <dataCzasTransakcji>2015-07-23T16:41:09.284136</dataCzasTransakcji>
       <!--Optional:-->
       <dataKoncowa>2016-07-23</dataKoncowa>
       <dataPoczatkowa>2015-07-21</dataPoczatkowa>
       <kodEAN>5909990672516</kodEAN>
       <rodzajTransakcji>PL</rodzajTransakcji>
       <!--Zero or more repetitions:-->
       <komunikatTransakcjaPDPlan>
          <rok>2015</rok>
          <tydzien>15</tydzien>
          <wielkosc>34</wielkosc>
       </komunikatTransakcjaPDPlan>
       <komunikatTransakcjaPDPlan>
          <rok>2014</rok>
          <tydzien>32</tydzien>
          <wielkosc>2</wielkosc>
       </komunikatTransakcjaPDPlan>
    </komunikatTransakcjaPD>
    <komunikatTransakcjaPD>
       <dataCzasTransakcji>2015-07-23T16:41:09.284136</dataCzasTransakcji>
       <dataPoczatkowa>2015-07-21</dataPoczatkowa>
       <kodEAN>5909991343699</kodEAN>
       <rodzajTransakcji>WS</rodzajTransakcji>
       <!--Optional:-->
       <uzasadnWstrzymZakoncz>uzasadnienie opisowe, tylko gdy
       rodzajTransakcji WS lub ZA</uzasadnWstrzymZakoncz>
    </komunikatTransakcjaPD>
 </komunikatPD>
</obs:zapiszKomunikatPD>
```

10 Message status

There are two ways to check previously sent message status. First way is checking through ZSMOPL website by going to the section "komunikaty" where message filter is available.

The second way is using dedicated service, by sending a message, which structure is described in "Check status message" chapter.

Example:

Request

```
<stat:zapytajOStatusKomunikatu xmlns:stat="http://csioz.gov.pl/zsmopl/ws/statuskomunikatudmz/">
   <komunikat>
      <identyfikatorKomunikatu>154754302190818358</identyfikatorKomunikatu>
   </komunikat>
</stat:zapytajOStatusKomunikatu></soapenv:Body></soapenv:Envelope>
```

Response

```
<ns2:statusOdpowiedz xmlns:ns2="http://csioz.gov.pl/zsmopl/ws/statuskomunikatudmz/">
 <statusKomunikatu>
   <identyfikatorKomunikatu>154754302190818358</identyfikatorKomunikatu>
   <statusKomunikatu>Błędny</statusKomunikatu>
   <transakcja>
    <dataCzasTransakcji>2018-07-26 01:59:00.0</dataCzasTransakcji>
    <lp>1</lp>
    <blad>
      <kodBledu>TROS17</kodBledu>
      <opisBledu>Nie podano numeru dokumentu zakupu, który odpowiada dokumentowi przyjęcia magazynowego.</opisBledu>
    </blad>
   </transakcja>
 </statusKomunikatu>
</ns2:statusOdpowiedz>
```