KDPW

User guide - KDPW ISO 2022 Settlement & Reconciliation messaging

Last update	version	Description
2026.09.04	3.0	Update to Swift SR2026

1. Introduction

ISO 20022 has become a leading data exchange standard in the financial industry. KDPW Group has been offering ISO 20022 messaging for selected business areas since 2013.

The objective of this document is to provide an overview of the ISO20022 Settlement and Reconciliation (S&R) messages offered by kdpw_stream system.

2. Service description

A list of supported S&R ISO20022 messages:

- sese.023.001.nn – Securities Settlement Transaction Instruction,
- sese.024.001.nn – Securities Settlement Transaction Status Advice,
- sese.025.001.nn – Securities Settlement Transaction Confirmation,
- semt.017.001.nn – Securities Transaction Posting Report,
- semt.002.001.nn - Securities Balance Custody Report,
- semt.013.001.nn - Intra Position Movement Instruction,
- sese.020.001.nn - Securities Transaction Cancellation Request,
- semt.021.001.nn - Securities Statement Query,
- sese.021.001.nn - Securities Transaction Status Query,
- sese.028.001.nn - Securities Settlement Transaction Allegement Notification,
- sese.030.001.nn - Securities Settlement Conditions Modification Request.

'*nn*' – is the number of the message version. KDPW will update the supported versions in line with the yearly ISO/SWIFT Standard Release.

The messages may be exchanged over KDPW communication infrastructure (A2A MQ based, Swift CUG or U2A interface). The common KDPW rules and requirements are applicable. An institution that intends to receive S&R ISO20022 messages is supposed to declare it formally in advance to KDPW.

To get access to the detailed documentation along with XSD schemas of the supported messages please join *KDPW_Settlement_And_Reconciliation_MX* community available at MyStandards platform in the KDPW managed section:

https://www2.swift.com/mystandards/#/group/KDPW_Group/CSD_of_Poland__KDPW__subgroup_!communities

3. Business Application Header

According to ISO20022, every business message consists of 2 base elements: ISO20022 message and Business Application Header (BAH).
The main goal of BAH is to provide business sender and receiver identifiers. For messages exchanged over KDPW network, sender and receiver identifiers should be provided as 4-character KDPW participant code. Full specification of BAH may be found at: www.iso20022.org; e.g. in the document: „ISO 20022 Business Application Header Message Usage Guide").

For MQ A2A and U2A interfeces, kdpw_stream system requires to link the two main elements by the common envelope (RequestPayload). A structure of each business message will match the following template:

<RequestPayload>
<AppHdr> ... </AppHdr>
<Document> ... </Document>
</RequestPayload>

XML Schema for the above structure has been defined as follows:

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns="kdpw:ISO20022BusinessMessage2"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  targetNamespace="kdpw:ISO20022BusinessMessage2"
  elementFormDefault="qualified">
<xs:element name="RequestPayload" type="ISO20022BusinessMessage1"/>
  <xs:complexType name="ISO20022BusinessMessage1">
    <xs:sequence>
      <xs:any namespace="urn:iso:std:iso:20022:tech:xsd:head.001.001.02"
           processContents="strict"/>
      <xs:any processContents="strict"/>
    </xs:sequence>
  </xs:complexType>
</xs:schema>
```

The examples of the business messages are provided in the next chapters of the document.

4. Basic message flows

The diagram below presents a basic message flow sequence related to a typical settlement instruction lifecycle:

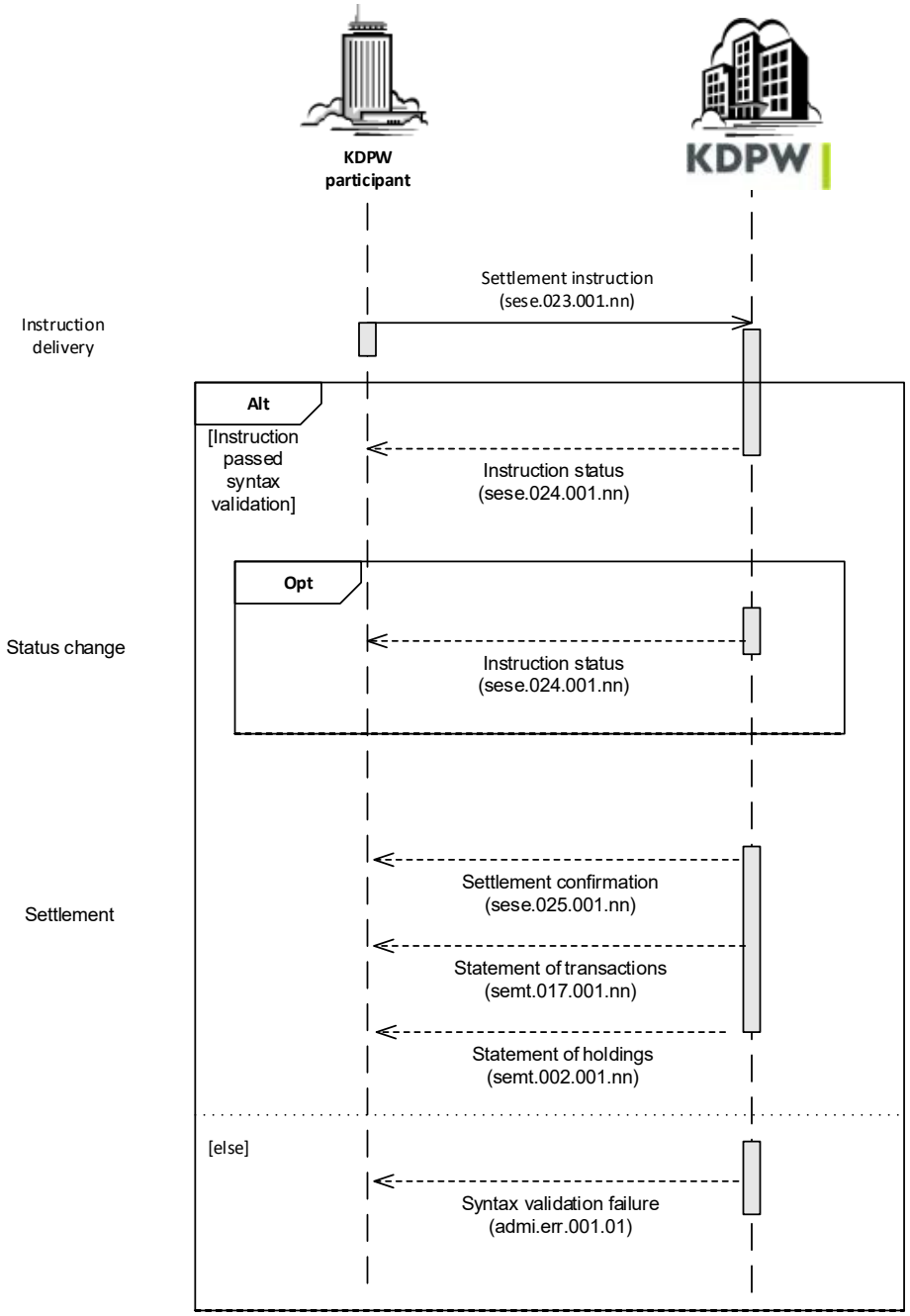


Diagram 1 -Basic settlement message flow

An institution may select ISO20022 based communication regardless of the counterparties they trade with. Each counterparty of the settlement will receive the message types according to their declared preferences. This is illustrated by the following diagram:

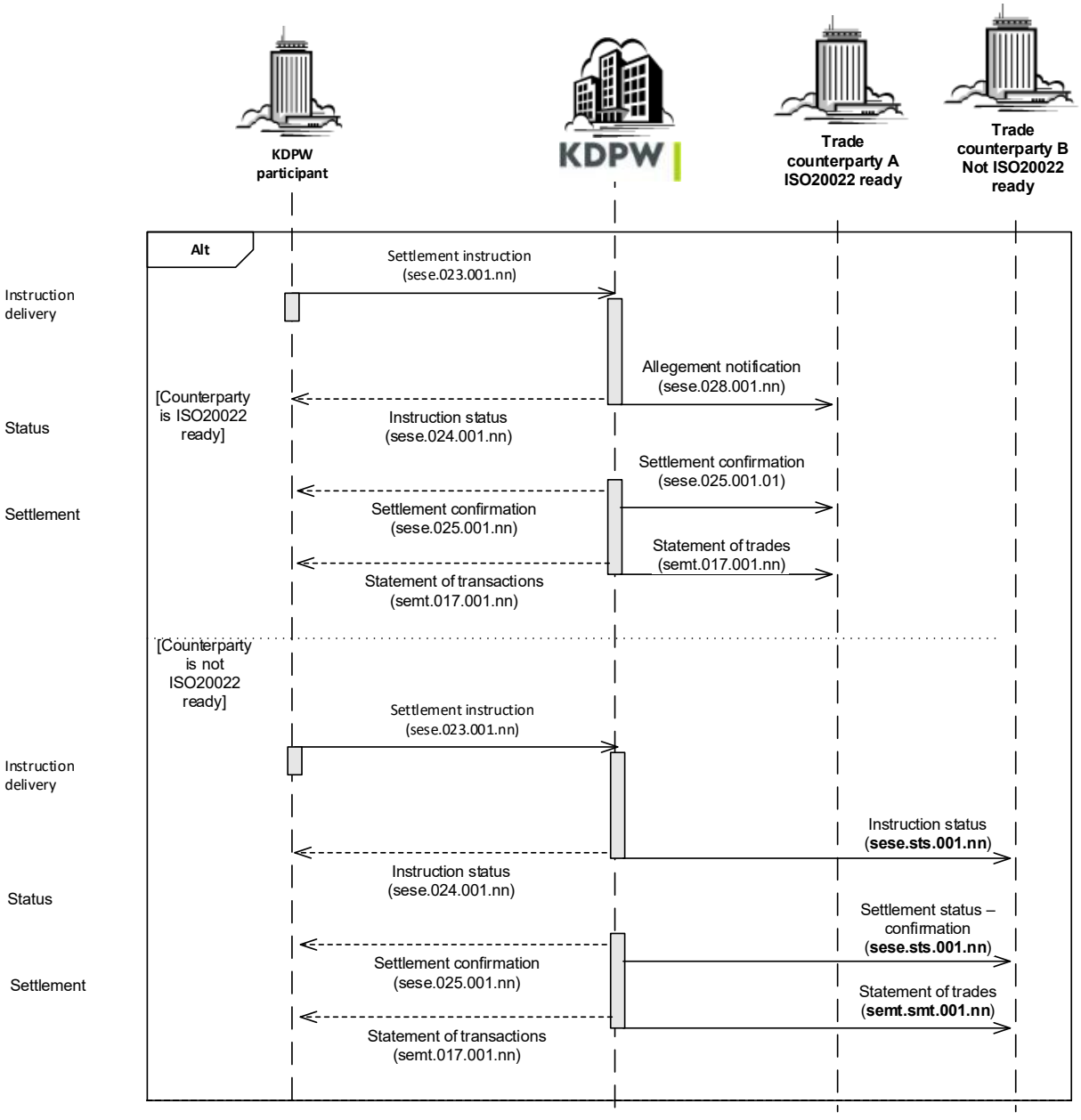


Diagram 2 -Counterparty dependent settlement message flow

5. Message examples

5.1. Basic settlement instruction

The following example illustrates a plain vanilla trade scenario. The message contains a minimal set of attributes and is fully compatible with SMPG/NMPG PL requirements.

```
<?xml version="1.0" encoding="UTF-8"?>
<RequestPayload xmlns="kdpw:ISO20022BusinessMessage"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="kdpw:ISO20022BusinessMessage ISO20022BusinessMessage.xsd">
	<AppHdr xsi:schemaLocation="urn:iso:std:iso:20022:tech:xsd:head.001.001.02
	head.001.001.02.xsd" xmlns="urn:iso:std:iso:20022:tech:xsd:head.001.001.02"
	xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
		<Fr>
			<OrgId>
				<Id>
					<OrgId>
						<Othr>
							<Id>5000</Id>
						</Othr>
					</OrgId>
				</Id>
			</OrgId>
		</Fr>
		<To>
			<OrgId>
				<Id>
					<OrgId>
						<Othr>
							<Id>0001</Id>
						</Othr>
					</OrgId>
				</Id>
			</OrgId>
		</To>
		<BizMsgIdr>BIZ123</BizMsgIdr>
		<MsgDefIdr>sese.023.001.13</MsgDefIdr>
		<CreDt>2017-11-10T09:00:00Z</CreDt>
	</AppHdr>
	<Document xmlns="urn:iso:std:iso:20022:tech:xsd:sese.023.001.13"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:iso:std:iso:20022:tech:xsd:sese.023.001.13
KDPW_PL_SR__MX_Settlement_SR2017_V1_KDPW_PL_SR__MX_Settlement_SR2017_V1_Securities
SettlementTransactionInstructionV0_20171013_1548_enriched.xsd">
		<SctiesSttlmTxInstr>
			<TxId>a</TxId>
			<SttlmTpAndAddtlParams>
				<SctiesMvmntTp>RECE</SctiesMvmntTp>
				<Pmt>APMT</Pmt>
			</SttlmTpAndAddtlParams>
			<TradDtls>
```

```
        <TradDt>
                <Dt>
                        <Dt>2017-11-13</Dt>
                </Dt>
        </TradDt>
        <SttlmDt>
                <Dt>
                        <Dt>2017-11-14</Dt>
                </Dt>
        </SttlmDt>
</TradDtls>
<FinInstrmId>
        <ISIN>PLZYWIC00016</ISIN>
</FinInstrmId>
<QtyAndAcctDtls>
        <SttlmQty>
                <Qty>
                        <Unit>100</Unit>
                </Qty>
        </SttlmQty>
        <AcctOwnr>
                <Id>
                        <PrtryId>
                                <Id>5000</Id>
                                <Issr>KDPW</Issr>
                        </PrtryId>
                </Id>
        </AcctOwnr>
        <SfkpgAcct>
                <Id>1000</Id>
        </SfkpgAcct>
</QtyAndAcctDtls>
<SttlmParams>
        <SctiesTxTp>
                <Cd>TRAD</Cd>
        </SctiesTxTp>
</SttlmParams>
<DlvrgSttlmPties>
        <Dpstry>
                <Id>
                        <AnyBIC>KDPWPLPWXXX</AnyBIC>
                </Id>
        </Dpstry>
        <Pty1>
                <Id>
                        <PrtryId>
                                <Id>5001</Id>
                                <Issr>KDPW</Issr>
                        </PrtryId>
                </Id>
                <SfkpgAcct>
                        <Id>3000</Id>
                </SfkpgAcct>
        </Pty1>
</DlvrgSttlmPties>
```

```
                <SttlmAmt>
                        <Amt Ccy="PLN">1000.45</Amt>
                        <CdtDbtInd>CRDT</CdtDbtInd>
                </SttlmAmt>
        </SctiesSttlmTxInstr>
    </Document>
</RequestPayload>
```

5.2. Settlement instruction with KDPW specific attributes

The 'Detailed Rules of Operation of the Central Securities Depository of Poland' define settlement operation type as a set of 3 attributes: Operation type (2 characters), Market code (2 characters) and Trading mode (2 characters).

While in most common cases it is not mandatory to provide all of those attributes explicitly in the instruction (ISO codes are acceptable or a default value may be derived by kdpw_stream system), the following example illustrate the way of inserting the local codes into ISO message.

If KDPW operation code is 'CB', KDPW Market code - 'NB' and the Trading mode – 'ZN, the instruction would look as follows:

```
<?xml version="1.0" encoding="UTF-8"?>
<RequestPayload xmlns="kdpw:ISO20022BusinessMessage"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="kdpw:ISO20022BusinessMessage ISO20022BusinessMessage.xsd">
      <AppHdr xsi:schemaLocation="urn:iso:std:iso:20022:tech:xsd:head.001.001.02
     head.001.001.02.xsd" xmlns="urn:iso:std:iso:20022:tech:xsd:head.001.001.02"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
            <Fr>
                  <OrgId>
                        <Id>
                              <OrgId>
                                    <Othr>
                                          <Id>5006</Id>
                                    </Othr>
                              </OrgId>
                        </Id>
                  </OrgId>
            </Fr>
            <To>
                  <OrgId>
                        <Id>
                              <OrgId>
                                    <Othr>
                                          <Id>0001</Id>
                                    </Othr>
                              </OrgId>
                        </Id>
                  </OrgId>
            </To>
            <BizMsgIdr>BIZ124</BizMsgIdr>
```

```
            <MsgDefIdr>sese.023.001.13</MsgDefIdr>
            <CreDt>2017-11-10T09:00:00Z</CreDt>
      </AppHdr>
      <Document xmlns="urn:iso:std:iso:20022:tech:xsd:sese.023.001.13"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:iso:std:iso:20022:tech:xsd:sese.023.001.13
sese.023.001.13.xsd">
            <SctiesSttlmTxInstr>
                  <TxId>TX11</TxId>
                  <SttlmTpAndAddtlParams>
                        <SctiesMvmntTp>DELI</SctiesMvmntTp>
                        <Pmt>FREE</Pmt>
                  </SttlmTpAndAddtlParams>
                  <TradDtls>
                        <PlcOfTrad>
                              <MktTpAndId>
                                    <Tp>
                                          <Prtry>
                                                <Id>NBXX</Id>
                                                <Issr>KDPW</Issr>
                                          </Prtry>
                                    </Tp>
                              </MktTpAndId>
                        </PlcOfTrad>
                        <TradDt>
                              <Dt>
                                    <Dt>2017-11-13</Dt>
                              </Dt>
                        </TradDt>
                        <SttlmDt>
                              <Dt>
                                    <Dt>2017-11-14</Dt>
                              </Dt>
                        </SttlmDt>
                        <TradTxCond>
                              <Prtry>
                                    <Id>ZNXX</Id>
                                    <Issr>KDPW</Issr>
                              </Prtry>
                        </TradTxCond>
                  </TradDtls>
                  <FinInstrmId>
                        <ISIN>PLZYWIC00016</ISIN>
                  </FinInstrmId>
                  <QtyAndAcctDtls>
                        <SttlmQty>
                              <Qty>
                                    <Unit>10</Unit>
                              </Qty>
                        </SttlmQty>
                        <AcctOwnr>
                              <Id>
                                    <PrtryId>
                                          <Id>5006</Id>
                                          <Issr>KDPW</Issr>
```

```
                                    </PrtryId>
                              </Id>
                        </AcctOwnr>
                        <SfkpgAcct>
                              <Id>0010</Id>
                        </SfkpgAcct>
                  </QtyAndAcctDtls>
                  <SttlmParams>
                        <SctiesTxTp>
                              <Prtry>
                                    <Id>CBXX</Id>
                                    <Issr>KDPW</Issr>
                              </Prtry>
                        </SctiesTxTp>
                  </SttlmParams>
                  <RcvgSttlmPties>
                        <Pty1>
                              <Id>
                                    <PrtryId>
                                          <Id>5007</Id>
                                          <Issr>KDPW</Issr>
                                    </PrtryId>
                              </Id>
                              <SfkpgAcct>
                                    <Id>2000</Id>
                              </SfkpgAcct>
                        </Pty1>
                  </RcvgSttlmPties>
            </SctiesSttlmTxInstr>
      </Document>
</RequestPayload>
```

5.3. Settlement instruction concerning repo and sell/buy-back transactions

The following ISO transaction types related to repo and sell/buy-back are supported: REPU, RVPO, BSBK, SBBK.

A repo trade will be marked as follows:

```
<SttlmParams>
      <SctiesTxTp>
            <Cd>REPU</Cd>
      </SctiesTxTp>
</SttlmParams>
```

Alternatively, if KDPW codes are preferred, opening and closing leg should be indicated, using two characters following the proprietary transaction code ‘RE’. ‘OP’ code should be used for the opening leg, ‘CL’ for the closing leg.

Example: Opening leg of a repo transaction should be marked as follows

```
<SttlmParams>
	<SctiesTxTp>
		<Prtry>
			<Id>REOP</Id>
			<Issr>KDPW</Issr>
		</Prtry>
	</SctiesTxTp>
</SttlmParams>
```

5.4. Settlement instruction status

The following example presents a status of a correct settlement instruction awaiting the settlement date:

```
<?xml version="1.0" encoding="UTF-8"?>
<RequestPayload xmlns="kdpw:ISO20022BusinessMessage"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="kdpw:ISO20022BusinessMessage ISO20022BusinessMessage.xsd">
	<AppHdr xsi:schemaLocation="urn:iso:std:iso:20022:tech:xsd:head.001.001.02
	head.001.001.02.xsd" xmlns="urn:iso:std:iso:20022:tech:xsd:head.001.001.02"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
		<Fr>
			<OrgId>
				<Id>
					<OrgId>
						<Othr>
							<Id>0001</Id>
						</Othr>
					</OrgId>
				</Id>
			</OrgId>
		</Fr>
		<To>
			<OrgId>
				<Id>
					<OrgId>
						<Othr>
							<Id>5006</Id>
						</Othr>
					</OrgId>
				</Id>
			</OrgId>
		</To>
		<BizMsgIdr>BIZ123_sts1</BizMsgIdr>
		<MsgDefIdr>sese.024.001.14</MsgDefIdr>
```

```
            <CreDt>2017-11-10T09:00:00Z</CreDt>
      </AppHdr>
      <Document xmlns="urn:iso:std:iso:20022:tech:xsd:sese.024.001.14"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:iso:std:iso:20022:tech:xsd:sese.024.001.14
sese.024.001.14.xsd">
            <SctiesSttlmTxStsAdvc>
                  <TxId>
                        <AcctOwnrTxId>Ref1</AcctOwnrTxId>
                        <AcctSvcrTxId>KDPWref1</AcctSvcrTxId>
                  </TxId>
                  <SttlmSts>
                        <Pdg>
                              <Rsn>
                                    <Cd>
                                          <Cd>FUTU</Cd>
                                    </Cd>
                              </Rsn>
                        </Pdg>
                  </SttlmSts>
                  <TxDtls>
                        <AcctOwnr>
                              <Id>
                                    <PrtryId>
                                          <Id>5006</Id>
                                          <Issr>KDPW</Issr>
                                    </PrtryId>
                              </Id>
                        </AcctOwnr>
                        <SfkpgAcct>
                              <Id>2000</Id>
                        </SfkpgAcct>
                        <FinInstrmId>
                              <ISIN>AA0000000000</ISIN>
                        </FinInstrmId>
                        <SttlmQty>
                              <Qty>
                                    <Unit>10</Unit>
                              </Qty>
                        </SttlmQty>
                        <SttlmAmt>
                              <Amt Ccy="PLN">100</Amt>
                              <CdtDbtInd>CRDT</CdtDbtInd>
                        </SttlmAmt>
                        <XpctdSttlmDt>
                              <Dt>2017-11-13</Dt>
                        </XpctdSttlmDt>
                        <SttlmDt>
                              <Dt>
                                    <Dt>2017-11-13</Dt>
                              </Dt>
                        </SttlmDt>
                        <TradDt>
                              <Dt>
                                    <Dt>2017-11-05</Dt>
```

```
                        </Dt>
                    </TradDt>
                    <SctiesMvmntTp>DELI</SctiesMvmntTp>
                    <Pmt>APMT</Pmt>
                    <SttlmParams>
                        <SctiesTxTp>
                            <Cd>TRAD</Cd>
                        </SctiesTxTp>
                        <PrtlSttlmInd>PART</PrtlSttlmInd>
                    </SttlmParams>
                    <RcvgSttlmPties>
                        <Pty1>
                            <Id>
                                <PrtryId>
                                    <Id>5007</Id>
                                    <Issr>KDPW</Issr>
                                </PrtryId>
                            </Id>
                            <SfkpgAcct>
                                <Id>ABCD</Id>
                            </SfkpgAcct>
                        </Pty1>
                    </RcvgSttlmPties>
                    <DlvrgSttlmPties>
                        <Pty1>
                            <Id>
                                <PrtryId>
                                    <Id>5006</Id>
                                    <Issr>KDPW</Issr>
                                </PrtryId>
                            </Id>
                            <SfkpgAcct>
                                <Id>2000</Id>
                            </SfkpgAcct>
                        </Pty1>
                    </DlvrgSttlmPties>
                </TxDtls>
            </SctiesSttlmTxStsAdvc>
        </Document>
</RequestPayload>
```

ISO20022 status message consists of two main parts: status section and transaction details. The status section structure is significantly different from ISO15022 and kdpw_stream status message equivalents, as it contains separate sections depending on the status category.
The kdpw_stream system will generate status messages with only one status code and status reason per message. The following status categories are supported in kdpw_stream system:

- **Processing status**
  An instruction that passed syntax validation will be accepted for further processing, which will be reflected by the following status:

```
<PrcgSts>
	<AckdAccptd>
		<NoSpcfdRsn>NORE</NoSpcfdRsn>
	</AckdAccptd>
</PrcgSts>
```

  An instruction rejected during business validation will be reported with the following section:

```
<PrcgSts>
	<Rjctd>
		<Rsn>
			<Cd>
				<Cd>{reason code}</Cd>
			</Cd>
			<AddtlRsnInf>{textual description}</AddtlRsnInf>

		</Rsn>
	</Rjctd>
</PrcgSts>
```

  A cancelled instruction will be reported as follows:

```
<PrcgSts>
	<Canc>
		<Rsn>
			<Cd>
				<Cd>{reason code}</Cd>
			</Cd>
		</Rsn>
	</Canc>
</PrcgSts>
```

- **Matching status**

  After successful matching, the kdpw_stream system will produce the following status information:

```
<MtchgSts>
	<Mtchd>
		<Rsn>
			<Id>NORE</Id>
			<Issuer>KDPW</Issuer>
		</Rsn>
	</Mtchd>
</MtchgSts>
```

  If an instruction cannot be matched, the status information will be as follows:

```
<MtchgSts>
	<Umtchd>
		<Rsn>
			<Cd>
				<Cd>{reason code}</Cd>
			</Cd>
			<AddtlRsnInf>{textual description}</AddtlRsnInf>
		</Rsn>
	</Umtchd>
</MtchgSts>

</PrcgSts>
```

- **Settlement status**

  For pending instructions waiting for the intended settlement date, the status information will be as follows:

```
<SttlmSts>
	<Pdg>
		<Rsn>
			<Cd>
				<Cd>{reason code}</Cd>
			</Cd>
			<AddtlRsnInf>{textual description}</AddtlRsnInf>
		</Rsn>
	</Pdg>
</SttlmSts>
```

  When the instruction missed the intended settlement, the status information will be as follows:

```
<SttlmSts>
	<Flng>
		<Rsn>
			<Cd>
				<Cd>{reason code}</Cd>
```

```
                        </Cd>
                        <AddtlRsnInf>{textual description}</AddtlRsnInf>
                    </Rsn>
                </Flng>
            </SttlmSts>
```

5.5. Settlement instruction allegement

Upon receiving of a settlement instruction, as for example presented in the point 5.1, kdpw_stream system generates information to the counterparty in the form of settlement transaction allegment message:

```
<?xml version="1.0" encoding="UTF-8"?>
<RequestPayload xmlns="kdpw:ISO20022BusinessMessage"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="kdpw:ISO20022BusinessMessage ISO20022BusinessMessage.xsd">
      <AppHdr xsi:schemaLocation="urn:iso:std:iso:20022:tech:xsd:head.001.001.02
      head.001.001.02.xsd" xmlns="urn:iso:std:iso:20022:tech:xsd:head.001.001.02"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
            <Fr>
                  <OrgId>
                        <Id>
                              <OrgId>
                                    <Othr>
                                          <Id>5001</Id>
                                    </Othr>
                              </OrgId>
                        </Id>
                  </OrgId>
            </Fr>
            <To>
                  <OrgId>
                        <Id>
                              <OrgId>
                                    <Othr>
                                          <Id>0001</Id>
                                    </Othr>
                              </OrgId>
                        </Id>
                  </OrgId>
            </To>
            <BizMsgIdr>BIZ123_sts1</BizMsgIdr>
            <MsgDefIdr>sese.028.001.12</MsgDefIdr>
            <CreDt>2017-11-10T09:00:00Z</CreDt>
      </AppHdr>
      <Document xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="urn:iso:std:iso:20022:tech:xsd:sese.028.001.12"
xsi:schemaLocation="urn:iso:std:iso:20022:tech:xsd:sese.028.001.12
MX_sese_028_001_06_enriched.xsd">
            <SctiesSttlmTxAllgmtNtfctn>
                  <TxId>ABCD</TxId>
                  <SttlmTpAndAddtlParams>
                        <SctiesMvmntTp>RECE</SctiesMvmntTp>
                        <Pmt>APMT</Pmt>
                  </SttlmTpAndAddtlParams>
                  <TradDtls>
                        <TradId>A12</TradId>
                        <TradDt>
                              <Dt>
                                    <Dt>2018-08-13</Dt>
                              </Dt>
```

```
		</TradDt>
		<SttlmDt>
			<Dt>
				<Dt>2018-08-15</Dt>
			</Dt>
		</SttlmDt>
	</TradDtls>
	<FinInstrmId>
		<ISIN>AA0000000000</ISIN>
	</FinInstrmId>
	<QtyAndAcctDtls>
		<SttlmQty>
			<Unit>1000</Unit>
		</SttlmQty>
		<AcctOwnr>
			<Id>
				<PrtryId>
					<Id>09XX</Id>
					<Issr>KDPW</Issr>
				</PrtryId>
			</Id>
		</AcctOwnr>
		<SfkpgAcct>
			<Id>ABCD</Id>
		</SfkpgAcct>
	</QtyAndAcctDtls>
	<SttlmParams>
		<HldInd>true</HldInd>
		<SctiesTxTp>
			<Cd>TRAD</Cd>
		</SctiesTxTp>
	</SttlmParams>
	<DlvrgSttlmPties>
		<Dpstry>
			<Id>
				<AnyBIC>KDPWPLPW</AnyBIC>
			</Id>
		</Dpstry>
		<Pty1>
			<Id>
				<AnyBIC>AAAAAA20</AnyBIC>
			</Id>
		</Pty1>
	</DlvrgSttlmPties>
	<RcvgSttlmPties>
		<Dpstry>
			<Id>
				<AnyBIC>KDPWPLPW</AnyBIC>
			</Id>
		</Dpstry>
		<Pty1>
			<Id>
				<AnyBIC>AAAAAA20</AnyBIC>
			</Id>
		</Pty1>
```

```
                </RcvgSttlmPties>
                <SttlmAmt>
                        <Amt Ccy="PLN">100.3</Amt>
                        <CdtDbtInd>DBIT</CdtDbtInd>
                </SttlmAmt>
        </SctiesSttlmTxAllgmtNtfctn>
</Document>
</RequestPayload>
```

5.6. Settlement confirmation

The following example presents a confirmation of the completed settlement of an instruction:

```
<?xml version="1.0" encoding="UTF-8"?>
<RequestPayload xmlns="kdpw:ISO20022BusinessMessage"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="kdpw:ISO20022BusinessMessage ISO20022BusinessMessage.xsd">
        <AppHdr xsi:schemaLocation="urn:iso:std:iso:20022:tech:xsd:head.001.001.02
        head.001.001.02.xsd" xmlns="urn:iso:std:iso:20022:tech:xsd:head.001.001.02"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
                <Fr>
                        <OrgId>
                                <Id>
                                        <OrgId>
                                                <Othr>
                                                        <Id>0001</Id>
                                                </Othr>
                                        </OrgId>
                                </Id>
                        </OrgId>
                </Fr>
                <To>
                        <OrgId>
                                <Id>
                                        <OrgId>
                                                <Othr>
                                                        <Id>5006</Id>
                                                </Othr>
                                        </OrgId>
                                </Id>
                        </OrgId>
                </To>
                <BizMsgIdr>BIZ123_sts1</BizMsgIdr>
                <MsgDefIdr>sese.025.001.13</MsgDefIdr>
                <CreDt>2017-11-10T09:00:00Z</CreDt>
        </AppHdr>
        <Document xmlns="urn:iso:std:iso:20022:tech:xsd:sese.025.001.13"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:iso:std:iso:20022:tech:xsd:sese.025.001.13
sese.025.001.13.xsd">
                <SctiesSttlmTxConf>
                        <TxIdDtls>
                                <AcctOwnrTxId>Ref1</AcctOwnrTxId>
```

```
        <AcctSvcrTxId>KDPWref1</AcctSvcrTxId>
        <SctiesMvmntTp>DELI</SctiesMvmntTp>
        <Pmt>APMT</Pmt>
        <CmonId> </CmonId>
</TxIdDtls>
<TradDtls>
        <TradDt>
                <Dt>
                        <Dt>2107-11-05</Dt>
                </Dt>
        </TradDt>
        <SttlmDt>
                <Dt>
                        <Dt>2017-11-13</Dt>
                </Dt>
        </SttlmDt>
        <FctvSttlmDt>
                <Dt>
                        <Dt>2017-11-13</Dt>
                </Dt>
        </FctvSttlmDt>
</TradDtls>
<FinInstrmId>
        <ISIN>AA0000000000</ISIN>
</FinInstrmId>
<QtyAndAcctDtls>
        <SttldQty>
                <Qty>
                        <Unit>100</Unit>
                </Qty>
        </SttldQty>
        <PrevslySttldQty>
                <Unit>0</Unit>
        </PrevslySttldQty>
        <RmngToBeSttldQty>
                <Unit>0</Unit>
        </RmngToBeSttldQty>
        <PrevslySttldAmt>
                <Amt Ccy="PLN">0</Amt>
                <CdtDbtInd>CRDT</CdtDbtInd>
        </PrevslySttldAmt>
        <RmngToBeSttldAmt>
                <Amt Ccy="PLN">0</Amt>
                <CdtDbtInd>DBIT</CdtDbtInd>
        </RmngToBeSttldAmt>
        <AcctOwnr>
                <Id>
                        <PrtryId>
                                <Id>5006</Id>
                                <Issr>KDPW</Issr>
                        </PrtryId>
                </Id>
        </AcctOwnr>
        <SfkpgAcct>
                <Id>1000</Id>
```

```
      </SfkpgAcct>
</QtyAndAcctDtls>
<SttlmParams>
      <SctiesTxTp>
            <Cd>TRAD</Cd>
      </SctiesTxTp>
      <PrtlSttlmInd>PART</PrtlSttlmInd>
</SttlmParams>
<DlvrgSttlmPties>
      <Dpstry>
            <Id>
                  <AnyBIC>KDPWPLPW</AnyBIC>
            </Id>
      </Dpstry>
      <Pty1>
            <Id>
                  <PrtryId>
                        <Id>5006</Id>
                        <Issr>KDPW</Issr>
                  </PrtryId>
            </Id>
            <SfkpgAcct>
                  <Id>1000</Id>
            </SfkpgAcct>
      </Pty1>
      <Pty2>
            <Id>
                  <AnyBIC>AAAAAA20</AnyBIC>
            </Id>
            <SfkpgAcct>
                  <Id>a</Id>
            </SfkpgAcct>
      </Pty2>
</DlvrgSttlmPties>
<RcvgSttlmPties>
      <Dpstry>
            <Id>
                  <AnyBIC>KDPWPLPW</AnyBIC>
            </Id>
      </Dpstry>
      <Pty1>
            <Id>
                  <AnyBIC>AAAAAA20</AnyBIC>
            </Id>
            <SfkpgAcct>
                  <Id>ACC1</Id>
            </SfkpgAcct>
      </Pty1>
      <Pty2>
            <Id>
                  <AnyBIC>AAAAAA20</AnyBIC>
            </Id>
            <SfkpgAcct>
                  <Id>a</Id>
            </SfkpgAcct>
```

```
                        </Pty2>
                    </RcvgSttlmPties>
                    <CshPties>
                        <Dbtr>
                            <Id>
                                <AnyBIC>AAAAAA20</AnyBIC>
                            </Id>
                            <CshAcct>
                                <IBAN>AA000</IBAN>
                            </CshAcct>
                        </Dbtr>
                        <Cdtr>
                            <Id>
                                <AnyBIC>AAAAAA20</AnyBIC>
                            </Id>
                            <CshAcct>
                                <IBAN>AA000</IBAN>
                            </CshAcct>
                        </Cdtr>
                    </CshPties>
                    <SttldAmt>
                        <Amt Ccy="PLN">1000</Amt>
                        <CdtDbtInd>DBIT</CdtDbtInd>
                    </SttldAmt>
                </SctiesSttlmTxConf>
            </Document>
        </RequestPayload>
```

5.7. Statement of transactions

Kdpw_stream system generates statements of transactions for reconciliation purposes. The statement contains opening and closing balances for an account, as well as a list of transactions that impacted the account balance.

```
<?xml version="1.0" encoding="UTF-8"?>
<RequestPayload xmlns="kdpw:ISO20022BusinessMessage"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="kdpw:ISO20022BusinessMessage ISO20022BusinessMessage.xsd">
      <AppHdr xsi:schemaLocation="urn:iso:std:iso:20022:tech:xsd:head.001.001.02
      head.001.001.02.xsd" xmlns="urn:iso:std:iso:20022:tech:xsd:head.001.001.02"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
            <Fr>
                  <OrgId>
                        <Id>
                              <OrgId>
                                    <Othr>
                                          <Id>0001</Id>
                                    </Othr>
                              </OrgId>
                        </Id>
                  </OrgId>
            </Fr>
            <To>
                  <OrgId>
                        <Id>
                              <OrgId>
                                    <Othr>
                                          <Id>5006</Id>
                                    </Othr>
                              </OrgId>
                        </Id>
                  </OrgId>
            </To>
            <BizMsgIdr>BIZ123_sts1</BizMsgIdr>
            <MsgDefIdr>semt.017.001.14</MsgDefIdr>
            <CreDt>2017-11-10T09:00:00Z</CreDt>
      </AppHdr>
      <Document xmlns="urn:iso:std:iso:20022:tech:xsd:semt.017.001.14"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:iso:std:iso:20022:tech:xsd:semt.017.001.14
semt.017.001.14.xsd">
      <SctiesTxPstngRpt>
            <Pgntn>
                  <PgNb>1</PgNb>
                  <LastPgInd>true</LastPgInd>
            </Pgntn>
            <StmtGnlDtls>
                  <StmtId>N2</StmtId>
                  <StmtPrd>
                        <FrDtTmToDtTm>
                              <FrDtTm>2001-12-17T09:30:47Z</FrDtTm>
                              <ToDtTm>2001-12-17T09:30:47Z</ToDtTm>
                        </FrDtTmToDtTm>
```

```
        </StmtPrd>
        <Frqcy>
                <Cd>DAIL</Cd>
        </Frqcy>
        <UpdTp>
                <Cd>COMP</Cd>
        </UpdTp>
        <StmtBsis>
                <Cd>SETT</Cd>
        </StmtBsis>
        <ActvtyInd>true</ActvtyInd>
        <SubAcctInd>true</SubAcctInd>
</StmtGnlDtls>
<AcctOwnr>
        <Id>
                <PrtryId>
                        <Id>5006</Id>
                        <Issr>KDPW</Issr>
                </PrtryId>
        </Id>
</AcctOwnr>
<SfkpgAcct>
        <Id>1000</Id>
</SfkpgAcct>
<SubAcctDtls>
        <SfkpgAcct>
                <Id>AVAI</Id>
        </SfkpgAcct>
        <ActvtyInd>true</ActvtyInd>
        <FinInstrmDtls>
                <FinInstrmId>
                        <ISIN>AA0000000000</ISIN>
                </FinInstrmId>
                <OpngBal>
                        <ShrtLngInd>LONG</ShrtLngInd>
                        <OpngBal>
                                <Frst>
                                        <Qty>
                                                <Unit>100</Unit>
                                        </Qty>
                                </Frst>
                        </OpngBal>
                </OpngBal>
                <ClsgBal>
                        <ShrtLngInd>LONG</ShrtLngInd>
                        <ClsgBal>
                                <Fnl>
                                        <Qty>
                                                <Unit>200</Unit>
                                        </Qty>
                                </Fnl>
                        </ClsgBal>
                </ClsgBal>
                <Tx>
                        <AcctOwnrTxId>Ref1</AcctOwnrTxId>
```

```
                        <AcctSvcrTxId>KDPWRef1</AcctSvcrTxId>
                        <TxDtls>
                              <TxActvty>
                                    <Cd>SETT</Cd>
                              </TxActvty>
                              <SttlmTxOrCorpActnEvtTp>
                                    <SctiesTxTp>
                                          <Cd>TRAD</Cd>
                                    </SctiesTxTp>
                              </SttlmTxOrCorpActnEvtTp>
                              <SctiesMvmntTp>RECE</SctiesMvmntTp>
                              <Pmt>APMT</Pmt>
                              <PstngQty>
                                    <Qty>
                                          <Unit>100</Unit>
                                    </Qty>
                              </PstngQty>
                              <PstngAmt>
                                    <Amt Ccy="PLN">200</Amt>
                                    <CdtDbt>DBIT</CdtDbt>
                              </PstngAmt>
                              <TradDt>
                                    <Dt>
                                          <Dt>2017-11-05</Dt>
                                    </Dt>
                              </TradDt>
                              <FctvSttlmDt>
                                    <Dt>2017-11-15</Dt>
                              </FctvSttlmDt>
                              <DlvrgSttlmPties>
                                    <Pty1>
                                          <Id>
                                                <PrtryId>
                                                      <Id>5006</Id>
                                                      <Issr>KDPW</Issr>
                                                </PrtryId>
                                          </Id>
                                    </Pty1>
                              </DlvrgSttlmPties>
                              <RcvgSttlmPties>
                                    <Pty1>
                                          <Id>
                                                <PrtryId>
                                                      <Id>5007</Id>
                                                      <Issr>KDPW</Issr>
                                                </PrtryId>
                                          </Id>
                                          <SfkpgAcct>
                                                <Id>a</Id>
                                          </SfkpgAcct>
                                    </Pty1>
                              </RcvgSttlmPties>
                        </TxDtls>
                  </Tx>
            </FinInstrmDtls>
```

```
            </SubAcctDtls>
        </SctiesTxPstngRpt>
</Document>
</RequestPayload>
```

5.8. Statement of holdings

The statement of holdings contains a list of securities balances for a selected settlement account. An example of the statement is presented below:

```
<?xml version="1.0" encoding="UTF-8"?>
<RequestPayload xmlns="kdpw:ISO20022BusinessMessage"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="kdpw:ISO20022BusinessMessage ISO20022BusinessMessage.xsd">
      <AppHdr xsi:schemaLocation="urn:iso:std:iso:20022:tech:xsd:head.001.001.02
      head.001.001.02.xsd" xmlns="urn:iso:std:iso:20022:tech:xsd:head.001.001.02"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
            <Fr>
                  <OrgId>
                        <Id>
                              <OrgId>
                                    <Othr>
                                          <Id>0001</Id>
                                    </Othr>
                              </OrgId>
                        </Id>
                  </OrgId>
            </Fr>
            <To>
                  <OrgId>
                        <Id>
                              <OrgId>
                                    <Othr>
                                          <Id>5006</Id>
                                    </Othr>
                              </OrgId>
                        </Id>
                  </OrgId>
            </To>
            <BizMsgIdr>BIZ123_sts1</BizMsgIdr>
            <MsgDefIdr>semt.002.001.12</MsgDefIdr>
            <CreDt>2018-08-13T09:00:00Z</CreDt>
      </AppHdr>
      <Document xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="urn:iso:std:iso:20022:tech:xsd:semt.002.001.12"
xsi:schemaLocation="urn:iso:std:iso:20022:tech:xsd:semt.002.001.12
MX_semt_002_001_09_enriched.xsd">
            <SctiesBalCtdyRpt>
                  <Pgntn>
                        <PgNb>1</PgNb>
                        <LastPgInd>true</LastPgInd>
                  </Pgntn>
                  <StmtGnlDtls>
                        <RptNb>
                              <Shrt>010</Shrt>
                        </RptNb>
                        <StmtId>a</StmtId>
                        <StmtDtTm>
                              <Dt>2018-08-13</Dt>
                        </StmtDtTm>
```

```
		<Frqcy>
			<Cd>DAIL</Cd>
		</Frqcy>
		<UpdTp>
			<Cd>COMP</Cd>
		</UpdTp>
		<StmtBsis>
			<Cd>SETT</Cd>
		</StmtBsis>
		<ActvtyInd>true</ActvtyInd>
		<SubAcctInd>true</SubAcctInd>
	</StmtGnlDtls>
	<AcctOwnr>
		<Id>
			<PrtryId>
				<Id>09XX</Id>
				<Issr>KDPW</Issr>
			</PrtryId>
		</Id>
	</AcctOwnr>
	<SfkpgAcct>
		<Id>0101</Id>
	</SfkpgAcct>
	<SubAcctDtls>
		<SfkpgAcct>
			<Id>a</Id>
		</SfkpgAcct>
		<ActvtyInd>true</ActvtyInd>
		<BalForSubAcct>
			<FinInstrmId>
				<ISIN>PL0000000000</ISIN>
			</FinInstrmId>
			<AggtBal>
				<ShrtLngInd>LONG</ShrtLngInd>
				<Qty>
					<Qty>
						<Qty>
							<Unit>100</Unit>
						</Qty>
					</Qty>
				</Qty>
			</AggtBal>
			<BalBrkdwn>
				<SubBalTp>
					<Prtry>
						<Id>AVAI</Id>
						<Issr>KDPW</Issr>
					</Prtry>
				</SubBalTp>
				<Qty>
					<Qty>
						<Qty>
							<Unit>20</Unit>
						</Qty>
					</Qty>
```

```
                                    </Qty>
                                </BalBrkdwn>
                                <BalBrkdwn>
                                    <SubBalTp>
                                        <Prtry>
                                            <Id>BLOK</Id>
                                            <Issr>KDPW</Issr>
                                        </Prtry>
                                    </SubBalTp>
                                    <Qty>
                                        <Qty>
                                            <Qty>
                                                <Unit>80</Unit>
                                            </Qty>
                                        </Qty>
                                    </Qty>
                                </BalBrkdwn>
                            </BalForSubAcct>
                        </SubAcctDtls>
                    </SctiesBalCtdyRpt>
                </Document>
</RequestPayload>
```

5.9. Partial settlement

The following section illustrates partial settlement scenario. For the settlement instruction presented in paragraph 5.1, the actual settlement occurred in 2 stages: on Nov 14th only 30 units of PLZYWIC00016 were settled, while the remaining 70 units were settlement on the following day, Nov 15th.

After the settlement session on Nov 14th , the KDPW member '5000' gets the following confirmation and status messages (only the key elements of the messages are presented for better clarity).

Confirmation of the partial settlement of 30 units:

```
<SctiesSttlmTxConf>
   <TxIdDtls>
        <AcctOwnrTxId>Ref1</AcctOwnrTxId>
        <AcctSvcrTxId>KDPWref2</AcctSvcrTxId>
        <SctiesMvmntTp>RECE</SctiesMvmntTp>
        <Pmt>APMT</Pmt>
   </TxIdDtls>
   <AddtlParams>
        <PrtlSttlm>PAIN</PrtlSttlm>
   </AddtlParams>
   <TradDtls>
        <TradDt>
            <Dt>
                <Dt>2107-11-13</Dt>
            </Dt>
        </TradDt>
```

```
        <SttlmDt>
                <Dt>
                        <Dt>2017-11-14</Dt>
                </Dt>
        </SttlmDt>
        <FctvSttlmDt>
                <Dt>
                        <Dt>2017-11-14</Dt>
                </Dt>
        </FctvSttlmDt>
</TradDtls>
<FinInstrmId>
        <ISIN> PLZYWIC00016</ISIN>
</FinInstrmId>
<QtyAndAcctDtls>
        <SttldQty>
                <Qty>
                        <Unit>30</Unit>
                </Qty>
        </SttldQty>
        <PrevslySttldQty>
                <Unit>0</Unit>
        </PrevslySttldQty>
        <RmngToBeSttldQty>
                <Unit>70</Unit>
        </RmngToBeSttldQty>
        <PrevslySttldAmt>
                <Amt Ccy="PLN">0</Amt>
                <CdtDbtInd>CRDT</CdtDbtInd>
        </PrevslySttldAmt>
        <RmngToBeSttldAmt>
                <Amt Ccy="PLN">700.30</Amt>
                <CdtDbtInd>CRDT</CdtDbtInd>
        </RmngToBeSttldAmt>
        <AcctOwnr>
                <Id>
                        <PrtryId>
                                <Id>5000</Id>
                                <Issr>KDPW</Issr>
                        </PrtryId>
                </Id>
        </AcctOwnr>
        <SfkpgAcct>
                <Id>1000</Id>
        </SfkpgAcct>
</QtyAndAcctDtls>
<SttlmParams>
        <SctiesTxTp>
                <Cd>TRAD</Cd>
        </SctiesTxTp>
        <PrtlSttlmInd>PART</PrtlSttlmInd>
</SttlmParams>
<DlvrgSttlmPties>
        …
</DlvrgSttlmPties>
```

```
        <RcvgSttlmPties>
                …
        </RcvgSttlmPties>
        <SttldAmt>
                <Amt Ccy="PLN">300.15</Amt>
                <CdtDbtInd>CRDT</CdtDbtInd>
        </SttldAmt>
</SctiesSttlmTxConf>
```

Failing status of the remaining 70 units to be settled:

```
<SctiesSttlmTxStsAdvc>
        <TxId>
                <AcctOwnrTxId>Ref1</AcctOwnrTxId>
                <AcctSvcrTxId>KDPWref1</AcctSvcrTxId>
        </TxId>
        <SttlmSts>
                <Flng>
                        <Rsn>
                                <Cd>
                                        <Cd>LACK</Cd>
                                </Cd>
                        </Rsn>
                </Flng>
        </SttlmSts>
        <TxDtls>
                <AcctOwnr>
                        <Id>
                                <PrtryId>
                                        <Id>5000</Id>
                                        <Issr>KDPW</Issr>
                                </PrtryId>
                        </Id>
                </AcctOwnr>
                <SfkpgAcct>
                        <Id>1000</Id>
                </SfkpgAcct>
                <FinInstrmId>
                        <ISIN> PLZYWIC00016</ISIN>
                </FinInstrmId>
                <SttlmQty>
                        <Qty>
                                <Unit>70</Unit>
                        </Qty>
                </SttlmQty>
                <SttlmAmt>
                        <Amt Ccy="PLN">700.30</Amt>
                        <CdtDbtInd>CRDT</CdtDbtInd>
                </SttlmAmt>
                <XpctdSttlmDt>
                        <Dt>2017-11-15</Dt>
                </XpctdSttlmDt>
                <SttlmDt>
```

```
                <Dt>
                        <Dt>2017-11-14</Dt>
                </Dt>
        </SttlmDt>

        <SctiesMvmntTp>RECE</SctiesMvmntTp>
        <Pmt>APMT</Pmt>
        <SttlmParams>
                <SctiesTxTp>
                        <Cd>TRAD</Cd>
                </SctiesTxTp>
                <PrtlSttlmInd>PART</PrtlSttlmInd>
        </SttlmParams>
        <RcvgSttlmPties>
                …
        </RcvgSttlmPties>
        <DlvrgSttlmPties>
                        …



        </DlvrgSttlmPties>
    </TxDtls>
</SctiesSttlmTxStsAdvc>
```

After successful settlement of the remaining 70 units on Nov 15th , the KDPW member ‘5000’ gets the final confirmation message:

```
<SctiesSttlmTxConf>
    <TxIdDtls>
        <AcctOwnrTxId>Ref1</AcctOwnrTxId>
        <AcctSvcrTxId>KDPWref2</AcctSvcrTxId>
        <SctiesMvmntTp>RECE</SctiesMvmntTp>
        <Pmt>APMT</Pmt>
    </TxIdDtls>
    <AddtlParams>
        <PrtlSttlm>PARC</PrtlSttlm>
    </AddtlParams>
    <TradDtls>
        <TradDt>
            <Dt>
                <Dt>2107-11-13</Dt>
            </Dt>
        </TradDt>
        <SttlmDt>
            <Dt>
                <Dt>2017-11-14</Dt>
            </Dt>
        </SttlmDt>
        <FctvSttlmDt>
            <Dt>
                <Dt>2017-11-15</Dt>
            </Dt>
```

```
        </FctvSttlmDt>
</TradDtls>
<FinInstrmId>
        <ISIN> PLZYWIC00016</ISIN>
</FinInstrmId>
<QtyAndAcctDtls>
        <SttldQty>
                <Qty>
                        <Unit>70</Unit>
                </Qty>
        </SttldQty>
        <PrevslySttldQty>
                <Unit>30</Unit>
        </PrevslySttldQty>
        <RmngToBeSttldQty>
                <Unit>0</Unit>
        </RmngToBeSttldQty>
        <PrevslySttldAmt>
                <Amt Ccy="PLN">300.15</Amt>
                <CdtDbtInd>CRDT</CdtDbtInd>
        </PrevslySttldAmt>
        <RmngToBeSttldAmt>
                <Amt Ccy="PLN">0</Amt>
                <CdtDbtInd>CRDT</CdtDbtInd>
        </RmngToBeSttldAmt>
        <AcctOwnr>
                <Id>
                        <PrtryId>
                                <Id>5000</Id>
                                <Issr>KDPW</Issr>
                        </PrtryId>
                </Id>
        </AcctOwnr>
        <SfkpgAcct>
                <Id>1000</Id>
        </SfkpgAcct>
</QtyAndAcctDtls>
<SttlmParams>
        <SctiesTxTp>
                <Cd>TRAD</Cd>
        </SctiesTxTp>
        <PrtlSttlmInd>PART</PrtlSttlmInd>
</SttlmParams>
<DlvrgSttlmPties>
        …
</DlvrgSttlmPties>
<RcvgSttlmPties>
…
</RcvgSttlmPties>
<SttldAmt>
        <Amt Ccy="PLN">700.30</Amt>
        <CdtDbtInd>CRDT</CdtDbtInd>
</SttldAmt>
</SctiesSttlmTxConf>
```

5.10. Intra-position movement instruction

Transfer between different balance types within the same settlement account might be instructed using intra-position movement instruction. The example below illustrates a case, where securities are moved from the base AVAI balance type into the blocked BLOK type:

```
<?xml version="1.0" encoding="UTF-8"?>
<RequestPayload xmlns="kdpw:ISO20022BusinessMessage"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="kdpw:ISO20022BusinessMessage ISO20022BusinessMessage.xsd">
      <AppHdr xsi:schemaLocation="urn:iso:std:iso:20022:tech:xsd:head.001.001.02
      head.001.001.02.xsd" xmlns="urn:iso:std:iso:20022:tech:xsd:head.001.001.02"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
            <Fr>
                  <OrgId>
                        <Id>
                              <OrgId>
                                    <Othr>
                                          <Id>5001</Id>
                                    </Othr>
                              </OrgId>
                        </Id>
                  </OrgId>
            </Fr>
            <To>
                  <OrgId>
                        <Id>
                              <OrgId>
                                    <Othr>
                                          <Id>0001</Id>
                                    </Othr>
                              </OrgId>
                        </Id>
                  </OrgId>
            </To>
            <BizMsgIdr>BIZ123_sts1</BizMsgIdr>
            <MsgDefIdr>semt.013.001.07</MsgDefIdr>
            <CreDt>2017-11-10T09:00:00Z</CreDt>
      </AppHdr>
      <Document xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="urn:iso:std:iso:20022:tech:xsd:semt.013.001.07"
xsi:schemaLocation="urn:iso:std:iso:20022:tech:xsd:semt.013.001.07
MX_semt_013_001_04_enriched.xsd">
            <IntraPosMvmntInstr>
                  <TxId>INST1</TxId>
                  <AcctOwnr>
                        <AnyBIC>AAAAAA20</AnyBIC>
                  </AcctOwnr>
                  <SfkpgAcct>
                        <Id>ABCD</Id>
                  </SfkpgAcct>
                  <FinInstrmId>
                        <ISIN>PL0000000000</ISIN>
                  </FinInstrmId>
                  <IntraPosDtls>
```

```
                        <SttlmQty>
                              <Unit>10</Unit>
                        </SttlmQty>
                        <SttlmDt>
                              <Dt>2018-08-13</Dt>
                        </SttlmDt>
                        <BalFr>
                              <Tp>
                                    <Cd>AVAI</Cd>
                              </Tp>
                        </BalFr>
                        <BalTo>
                              <Tp>
                                    <Cd>BLOK</Cd>
                              </Tp>
                        </BalTo>
                  </IntraPosDtls>
            </IntraPosMvmntInstr>
      </Document>
</RequestPayload>
```

5.11. Settlement instruction cancellation

Unilateral cancellation is applicable for an unmatched instructions only. Cancellation of an matched instruction requires sending cancellation requests from both transaction parties. Upon successful cancellation, the user receives the confirmation in the form of settlement instruction status message.

```
<?xml version="1.0" encoding="UTF-8"?>
<RequestPayload xmlns="kdpw:ISO20022BusinessMessage"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="kdpw:ISO20022BusinessMessage ISO20022BusinessMessage.xsd">
      <AppHdr xsi:schemaLocation="urn:iso:std:iso:20022:tech:xsd:head.001.001.02
      head.001.001.02.xsd" xmlns="urn:iso:std:iso:20022:tech:xsd:head.001.001.02"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
            <Fr>
                  <OrgId>
                        <Id>
                              <OrgId>
                                    <Othr>
                                          <Id>5001</Id>
                                    </Othr>
                              </OrgId>
                        </Id>
                  </OrgId>
            </Fr>
            <To>
                  <OrgId>
                        <Id>
                              <OrgId>
                                    <Othr>
                                          <Id>0001</Id>
                                    </Othr>
                              </OrgId>
                        </Id>
```

```
                        </OrgId>
                </To>
                <BizMsgIdr>BIZ123_sts1</BizMsgIdr>
                <MsgDefIdr>sese.020.001.09</MsgDefIdr>
                <CreDt>2017-11-10T09:00:00Z</CreDt>
        </AppHdr>
        <Document xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="urn:iso:std:iso:20022:tech:xsd:sese.020.001.09"
xsi:schemaLocation="urn:iso:std:iso:20022:tech:xsd:sese.020.001.09
MX_sese_020_001_05_enriched.xsd">
                <SctiesTxCxlReq>
                        <AcctOwnrTxId>
                                <SctiesSttlmTxId>
                                        <TxId>ABC</TxId>
                                        <SctiesMvmntTp>RECE</SctiesMvmntTp>
                                        <Pmt>APMT</Pmt>
                                </SctiesSttlmTxId>
                        </AcctOwnrTxId>
                        <AcctSvcrTxId>KDPW1234</AcctSvcrTxId>
                        <SfkpgAcct>
                                <Id>1000</Id>
                        </SfkpgAcct>
                </SctiesTxCxlReq>
        </Document>
</RequestPayload>
```

5.12. Settlement condition modification request

User may change a number of parameters of previously sent instruction using the settlement condition modification request.

The list of supported operations include:

- hold/release indication,
- partial settlement indication,
- settlement system indication (RTGS or multibatch).

The example below present an Release request, referring to an instruction which was sent in the Hold mode:

```
<?xml version="1.0" encoding="UTF-8"?>
<RequestPayload xmlns="kdpw:ISO20022BusinessMessage"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="kdpw:ISO20022BusinessMessage ISO20022BusinessMessage.xsd">
        <AppHdr xsi:schemaLocation="urn:iso:std:iso:20022:tech:xsd:head.001.001.02
       head.001.001.02.xsd" xmlns="urn:iso:std:iso:20022:tech:xsd:head.001.001.02"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
                <Fr>
                        <OrgId>
                                <Id>
                                        <OrgId>
                                                <Othr>
                                                        <Id>5001</Id>
```

```
                                    </Othr>
                              </OrgId>
                        </Id>
                  </OrgId>
            </Fr>
            <To>
                  <OrgId>
                        <Id>
                              <OrgId>
                                    <Othr>
                                          <Id>0001</Id>
                                    </Othr>
                              </OrgId>
                        </Id>
                  </OrgId>
            </To>
            <BizMsgIdr>BIZ123_sts1</BizMsgIdr>
            <MsgDefIdr>sese.030.001.07</MsgDefIdr>
            <CreDt>2017-11-10T09:00:00Z</CreDt>
      </AppHdr>
      <Document xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="urn:iso:std:iso:20022:tech:xsd:sese.030.001.10"
xsi:schemaLocation="urn:iso:std:iso:20022:tech:xsd:sese.030.001.10
MX_sese_030_001_06.xsd">
            <SctiesSttlmCondsModReq>
                  <SfkpgAcct>
                        <Id>1000</Id>
                  </SfkpgAcct>
                  <ReqDtls>
                        <Ref>
                              <AcctOwnrTxId>INSTR123</AcctOwnrTxId>
                        </Ref>
                        <HldInd>
                              <Ind>false</Ind>
                        </HldInd>
                  </ReqDtls>
            </SctiesSttlmCondsModReq>
      </Document>
</RequestPayload>
```

5.13. Queries

User may request receive a statement of holdings using securities statement query message:

```
<?xml version="1.0" encoding="UTF-8"?>
<RequestPayload xmlns="kdpw:ISO20022BusinessMessage"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="kdpw:ISO20022BusinessMessage ISO20022BusinessMessage.xsd">
      <AppHdr xsi:schemaLocation="urn:iso:std:iso:20022:tech:xsd:head.001.001.02
     head.001.001.02.xsd" xmlns="urn:iso:std:iso:20022:tech:xsd:head.001.001.02"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
            <Fr>
                  <OrgId>
```

```
                        <Id>
                              <OrgId>
                                    <Othr>
                                          <Id>5001</Id>
                                    </Othr>
                              </OrgId>
                        </Id>
                  </OrgId>
            </Fr>
            <To>
                  <OrgId>
                        <Id>
                              <OrgId>
                                    <Othr>
                                          <Id>0001</Id>
                                    </Othr>
                              </OrgId>
                        </Id>
                  </OrgId>
            </To>
            <BizMsgIdr>BIZ123_sts1</BizMsgIdr>
            <MsgDefIdr>semt.021.001.09</MsgDefIdr>
            <CreDt>2017-11-10T09:00:00Z</CreDt>
      </AppHdr>
      <Document xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="urn:iso:std:iso:20022:tech:xsd:semt.021.001.09"
xsi:schemaLocation="urn:iso:std:iso:20022:tech:xsd:semt.021.001.09
MX_semt_021_001_06_enriched.xsd">
            <SctiesStmtQry>
                  <StmtReqd>
                        <Nb>
                              <ShrtNb>001</ShrtNb>
                        </Nb>
                  </StmtReqd>
                  <StmtGnlDtls>
                        <StmtDtOrPrd>
                              <StmtDt>
                                    <Dt>2018-08-13</Dt>
                              </StmtDt>
                        </StmtDtOrPrd>
                        <Frqcy>
                              <Cd>DAIL</Cd>
                        </Frqcy>
                        <UpdTp>
                              <Cd>COMP</Cd>
                        </UpdTp>
                        <StmtBsis>
                              <Cd>SETT</Cd>
                        </StmtBsis>
                        <StmtTp>
                              <Cd>CUST</Cd>
                        </StmtTp>
                  </StmtGnlDtls>
                  <AcctOwnr>
                        <Id>
```

```
                                    <PrtryId>
                                          <Id>09XX</Id>
                                          <Issr>KDPW</Issr>
                                    </PrtryId>
                              </Id>
                        </AcctOwnr>
                        <SfkpgAcct>
                              <Id>ABCD</Id>
                        </SfkpgAcct>
                  </SctiesStmtQry>
      </Document>
</RequestPayload>
```

Information concerning settlement instruction statuses are provided automatically by kdpw_stream system following each status change. On top of that, a user may send a securities transaction status query to receive status information:

```
<?xml version="1.0" encoding="UTF-8"?>
<RequestPayload xmlns="kdpw:ISO20022BusinessMessage"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="kdpw:ISO20022BusinessMessage ISO20022BusinessMessage.xsd">
      <AppHdr xsi:schemaLocation="urn:iso:std:iso:20022:tech:xsd:head.001.001.02
      head.001.001.02.xsd" xmlns="urn:iso:std:iso:20022:tech:xsd:head.001.001.02"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
            <Fr>
                  <OrgId>
                        <Id>
                              <OrgId>
                                    <Othr>
                                          <Id>5001</Id>
                                    </Othr>
                              </OrgId>
                        </Id>
                  </OrgId>
            </Fr>
            <To>
                  <OrgId>
                        <Id>
                              <OrgId>
                                    <Othr>
                                          <Id>0001</Id>
                                    </Othr>
                              </OrgId>
                        </Id>
                  </OrgId>
            </To>
            <BizMsgIdr>BIZ123_sts1</BizMsgIdr>
            <MsgDefIdr>sese.021.001.08</MsgDefIdr>
            <CreDt>2017-11-10T09:00:00Z</CreDt>
      </AppHdr>
```

```
      <Document xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="urn:iso:std:iso:20022:tech:xsd:sese.021.001.08"
xsi:schemaLocation="urn:iso:std:iso:20022:tech:xsd:sese.021.001.08
MX_sese_021_001_04_enriched.xsd">
            <SctiesTxStsQry>
                  <StsAdvcReqd>
                        <Nb>
                              <ShrtNb>001</ShrtNb>
                        </Nb>
                        <Refs>
                              <AcctOwnrTxId>REF123</AcctOwnrTxId>
                        </Refs>
                  </StsAdvcReqd>
                  <SfkpgAcct>
                        <Id>1010</Id>
                  </SfkpgAcct>
            </SctiesTxStsQry>
      </Document>
</RequestPayload>
```