XML client invoices and justificatory reports
Detailed description
# Contents

Document history......................................................................................................................... 3

1   Introduction ............................................................................................................................................ 4

2   Context and overview................................................................................................................................. 5
      2.1  Scope........................................................................................................................................ 5
      2.2  Access means and schedule........................................................................................................... 7

3   XML structured invoice.............................................................................................................................. 8

4   Evidences type 1..................................................................................................................................... 12

5   Evidences type 2..................................................................................................................................... 14

6   Evidences type 3..................................................................................................................................... 15
### Document history

<table>
<thead>
<tr>
<th>Date</th>
<th>Version</th>
<th>Author</th>
<th>Summary of changes</th>
</tr>
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<tbody>
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<td>1</td>
<td>Billing services</td>
<td></td>
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</table>
1 Introduction

The goal of this document is to provide a description of the structure and contents of the XML files that are provided to LCH SA clients in the context of the dematerialisation of invoices and justificatory documents (also called “evidences” in this document).

In particular, this information can be used for reconciliation purpose between invoices and their associated evidences.
2 Context and overview

2.1 Scope

The files described in this document include:

– XML Structured Invoice File
– All existing evidences aimed at justifying invoices amounts in XML structured format

The table in the next page lists all of these evidences. Evidences have been regrouped by “Evidence Type” (4th column in the table), each of which corresponds to a different XML structure as detailed in sections 4, 5 and 6.
<table>
<thead>
<tr>
<th>Invoice activity</th>
<th>Evidence title</th>
<th>Evidence XML file name</th>
<th>Evidence type</th>
<th>ZIP file name</th>
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<tr>
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</table>
2.2 Access means and schedule

XML invoices and evidences are available:

- On the invoice portal for manual download

For further details, please refer to the service description.
An XML file is available for each individual client invoice. Every month, for a given client code and for a given activity, one invoice is issued. The invoice global amount breaks down into several individual sub-amounts for each of the products covered by the invoice. The structure of the XML file reflects this principle. The following is an example of such an XML invoice file. Comments are provided in italics where necessary.

```xml
<?xml version="1.0" encoding="UTF-8"?>
<Document xmlns="Arcole xml file of invoices">
  <InvoicesData>
    <Client>
      <ClientInformation>
        <CodeClient>C004650</CodeClient> A same-client legal entity may have several client codes. One invoice is always issued for one single client code
        <HeadquartersClientName>BANK XYZ</HeadquartersClientName>
        <HeadquartersAddress1>PIAZZA GRANDE</HeadquartersAddress1>
        <HeadquartersPostalCode>20121</HeadquartersPostalCode>
        <HeadquartersTown>MILAN</HeadquartersTown>
        <HeadquartersCountry>ITALIE</HeadquartersCountry>
        <HeadquartersCEECode>IT52644820</HeadquartersCEECode>
        <HeadquartersSIREN>315648897</HeadquartersSIREN>
        <Postalclientname>BANK XYZ</Postalclientname>
        <PostalRecipient>LONDON BRANCH/ACCOUNT DEPARTMENT</PostalRecipient>
        <PostalAddress1>90 CANON STREET</PostalAddress1>
        <PostalPostalCode>EC4N</PostalPostalCode>
        <PostalTown>1SA LONDON</PostalTown>
        <PostalCountry>GB</PostalCountry>
      </ClientInformation>
      <ComInvoices>
        <NumModelInvoices>30</NumModelInvoices>
        <InvoicesNumber>FV31-2001-00010</InvoicesNumber>
        <InvoicesActivity>DRV</InvoicesActivity> Corresponds to the activity
      </ComInvoices>
    </Client>
  </InvoicesData>
</Document>
```
covered by the invoice. One activity only per invoice. Possible values are: “CASH”, “CASHSERV”, “CDS”, “DRV”, “DRVRECAP”, “FI”, “PERIODIC”, “TECHNICAL”, “TREASURY”.

<Footers>
  <Footer1>LCH SA</Footer1>
  <Footer2>LCH SA was authorised to pay VAT on Debits</Footer2>
</Footers>
<VATData>
  Exempt from VAT, Article 44 and 196 of Directive 2006/112,

  VAT paid by the recipient.
</VATData>

<Amount>
  <TotalHT>27.48</TotalHT>
  <TotalVAT>0.00</TotalVAT>
  <TotalTTC>27.48</TotalTTC>
  <Currency>EUR</Currency>
  <MR>AP</MR>
  <CR>APPEL DE FONDS/CASH CALL</CR> Payment method
  <Maturity>2020-01-31</Maturity>
  <MaturityLabel1>Le retard de paiement donne lieu a la facturation</MaturityLabel1>
  <MaturityLabel2>d'interets a un taux egal a une fois et demie</MaturityLabel2>
  <MaturityLabel3>le taux d'interets legal fixe par</MaturityLabel3>
  <MaturityLabel4>la Banque Centrale Europenne.</MaturityLabel4>
</Amount>

<BankData>
  <Address1></Address1>
  <Address2></Address2>
  <Address3></Address3>
  <Address4></Address4>
  <Address5></Address5>
  <Bank></Bank>
  <RIB></RIB>
  <BICCode></BICCode>
  <IBAN></IBAN>
</BankData>

<ProductDetails>
  <Product>
    <ProductCode>521032</ProductCode>
    <DateClearing>2020-01-31</DateClearing>
    <ProductName>DRV Market Clearing Services - Transfer fee for restructuring</ProductName>
    <ProductName>MONEP - Paris Future</ProductName>
    <ProductName>Corrections and Transfers</ProductName>
    <ProductName>January 2020</ProductName>
    <ProductName>Correction Receiver - Market:</ProductName>
    <UnitPrice>0.48</UnitPrice>
    <Quantity>1.00</Quantity>
  </Product>
</ProductDetails>
<PriceHT>0.48</PriceHT>
<ProductVAT>0.00</ProductVAT>
<ProductVATAmount></ProductVATAmount>
<ProductTTC></ProductTTC>
</Product>

<Product>
<ProductCode>533012</ProductCode>
<DateClearing>2020-01-31</DateClearing>
<ProductLabel1>DRV Market</ProductLabel1>
<ProductLabel2>Exercise/Assignment fees</ProductLabel2>
<ProductLabel3>MONEP - Segment FR</ProductLabel3>
<ProductLabel4></ProductLabel4>
<ProductLabel5></ProductLabel5>
<ProductLabel6>January 2020</ProductLabel6>
<ProductLabel7></ProductLabel7>
<ProductLabel8></ProductLabel8>
<UnitPrice>27.00</UnitPrice>
<Quantity>1.00</Quantity>
<PriceHT>27.00</PriceHT>
<ProductVAT>0.00</ProductVAT>
<ProductVATAmount></ProductVATAmount>
<ProductTTC></ProductTTC>
</Product>
</ProductDetails>
</Invoices>
</Client>
</InvoicesData>
</Document>
4 Evidences type 1

There are 11 evidences of type 1. All evidences of type 1 share the same XML structure as follows:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<Document>
  <MsgId>Activity-Member code-creation date YYYYMMDDH24:MI:SS</MsgId>
  <Information> -- Fixed data
    This document is just details linked to LCHC SA invoices and has no information regarding VAT information
  </Information>
  <Justification>
    <CmfCode>Member code of the csv file</CmfCode>
    <CmfName>Member name of the csv file</CmfName>
    <InvoicePeriod>MMYYYY</InvoicePeriod>
    <JustificationDetails> -- block repeatable for each line of the csv file
      ...
    </JustificationDetails>
  </Justification>
</Document>
```

This structure is fixed except the `<JustificationDetails>` block which contains tags that depend on each of the individual evidence files as detailed below:

**CDS EVIDENCECL**

CMF CODE; CMF NAME; INVOICING CURRENCY; TMF CODE; TMF NAME; MARKET; BUSINESS DATE; PRODUCT LABEL; TRANSACTION TYPE; ORIGIN;PRODUCT FAMILY; TRADING CURRENCY; POSITION ACCOUNT; QUANTITY; VALUATION; FEES WITHOUT VAT
CASH EVIDENCE CL
CMF CODE; CMF NAME; INVOICING CURRENCY; TMF CODE; TMF NAME; MARKET CODE; BUSINESS DATE; PRODUCT LABEL; TRANSACTION TYPE; ORIGIN; BRACKET; INVOICING TRANSACTION NUMBER; OPERATION VALUATION; EUR VALUATION; TRANSACTION CURRENCY; DAILY CURRENCY RATE; FEES WITHOUT VAT

DRV EVIDENCE MATIF CL
CMF CODE; CMF NAME; INVOICING CURRENCY; TMF CODE; TMF NAME; MARKET CODE; BUSINESS DATE; PRODUCT LABEL; TRANSACTION TYPE; ORIGIN; POSITION ACCOUNT; TYPE COR; DIST FEE; PRODUCT FAMILY; TRADING CURRENCY; INVOICING TRANSACTION NUMBER; QUANTITY; FEES WITHOUT VAT

DRV EVIDENCE MONEPSERV
CMF CODE; CMF NAME; INVOICING CURRENCY; TMF CODE; TMF NAME; MARKET CODE; BUSINESS DATE; PRODUCT LABEL; TRANSACTION TYPE; ORIGIN; POSITION ACCOUNT; TYPE COR; DIST FEE; PRODUCT FAMILY; TRADING CURRENCY; INVOICING TRANSACTION NUMBER; QUANTITY; FEES WITHOUT VAT

CASHSERV EVIDENCE SETL
CMF CODE; CMF NAME; INVOICING CURRENCY; BUSINESS DATE; BAREME; SETTLEMENT SEGMENT; SETTLEMENT PLATFORM; DA; QUANTITY; CLEARING CURRENCY

CASHSERV EVIDENCE FAILS
CMF CODE; CMF NAME; INVOICING CURRENCY; BUSINESS DATE; BAREME; SETTLEMENT SEGMENT; DELIVERY ACCOUNT; ISIN CODE; QUANTITY; CLEARING VALUATION; CLEARING CURRENCY; DAILY CURRENCY; EUR VALUATION; FIXE FEES

DRV Compens tardive
CMF CODE; CMF NAME; INVOICING CURRENCY; BUSINESS DATE; PRODUCT LABEL; PRODUCT FAMILY; EXPIRATION DATE; STRIKE; SENS; POSITION ACCOUNT; OPEN BUY POSITION; OPEN SELL POSITION; FUT. BUY POS. FROM EXERCISE; FUT. SELL POS. FROM EXERCISE; OFFSET; QUANTITY TO INVOICE; LOTS TO 1 EURO; LOTS TO 2 EUROS; LOTS TO 3 EUROS; FEES WITHOUT VAT
5 Evidences type 2

There are five evidences of type 2. All evidences of type 2 share the same XML structure as follows:

```
<Document>
   <MsgId>Activity-Member code-creation date YYYYMMDDH24:MI:SS</MsgId>
   <Information> -- Fixed data
       This document is just details linked to LCH SA invoices and has no information regarding VAT information
   </Information>
   <Standard>
       <ClearingMember>Member code of the csv file</ClearingMember>
       <InvoicePeriod>MMYYYY</InvoicePeriod>
       <StandardDetails> -- block repeatable for each line of the csv file
           ...
       </StandardDetails>
   </Standard>
</Document>
```

This structure is fixed except the <StandardDetails> block which contains tags that depend on each of the individual evidence file as detailed below:

**CASH**

RefidentK+; Code ISIN; Libelle; Trade Date; Settlement Date; Face Amount; Cpty_shortname; Clearing Member; App Aff; Sens; Gross Amount; Type; Compartiment; Reverse; Tarif; Base Tarif

**NET**

RefidentK+; Id debt; Clearing Member; Compartiment; Code ISIN; Face Amount; Cash Amount; Settlement Date; Type; Tarif;Sens

**REPO**

RefidentK+; Code ISIN; Libelle; Trade Date; Value Date; Maturity Date; Face Amount; Cpty_shortname; Clearing Member; App Aff; Sens; Gross Amount; Type; Compartiment; Substitution; Tarif; Base Tarif
6 Evidences type 3

There are seven evidences of type 3. All evidences of type 3 share the same XML structure as follows:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<Document>
  <MsgId>Activity-Member code-creation date YYYYMMDDH24:MI:SS</MsgId>
  <Information> -- Fixed data
    This document is just details linked to LCH SA invoices and has no information regarding VAT information
  </Information>
  <Invoice>
    <CmfCode>Member code of the file</CmfCode>
    <InvoicePeriod>MMYYYY</InvoicePeriod>
    <InvoiceDetails> -- block repeatable for each line of the csv file
      <Date>MM/DD/YYYY</Date>
      <ProductCode>Product code</ProductCode>
      <ProductCodeLabel>Label corresponding to the product code</ProductCodeLabel>
      <Comments>Comments</Comments>
      <Quantity>Quantity</Quantity>
      <Amount>Amount</Amount>
      <OperationCurrency>Currency code of the amount</OperationCurrency>
      <Fees>Currency code of the fees</Fees>
    </InvoiceDetails>
  </Invoice>
</Document>
```
This structure is fixed and common to all files below:

- CASH Fail, •
  CDS CE, •
  Fi-Fails, •
  PER, • TECH