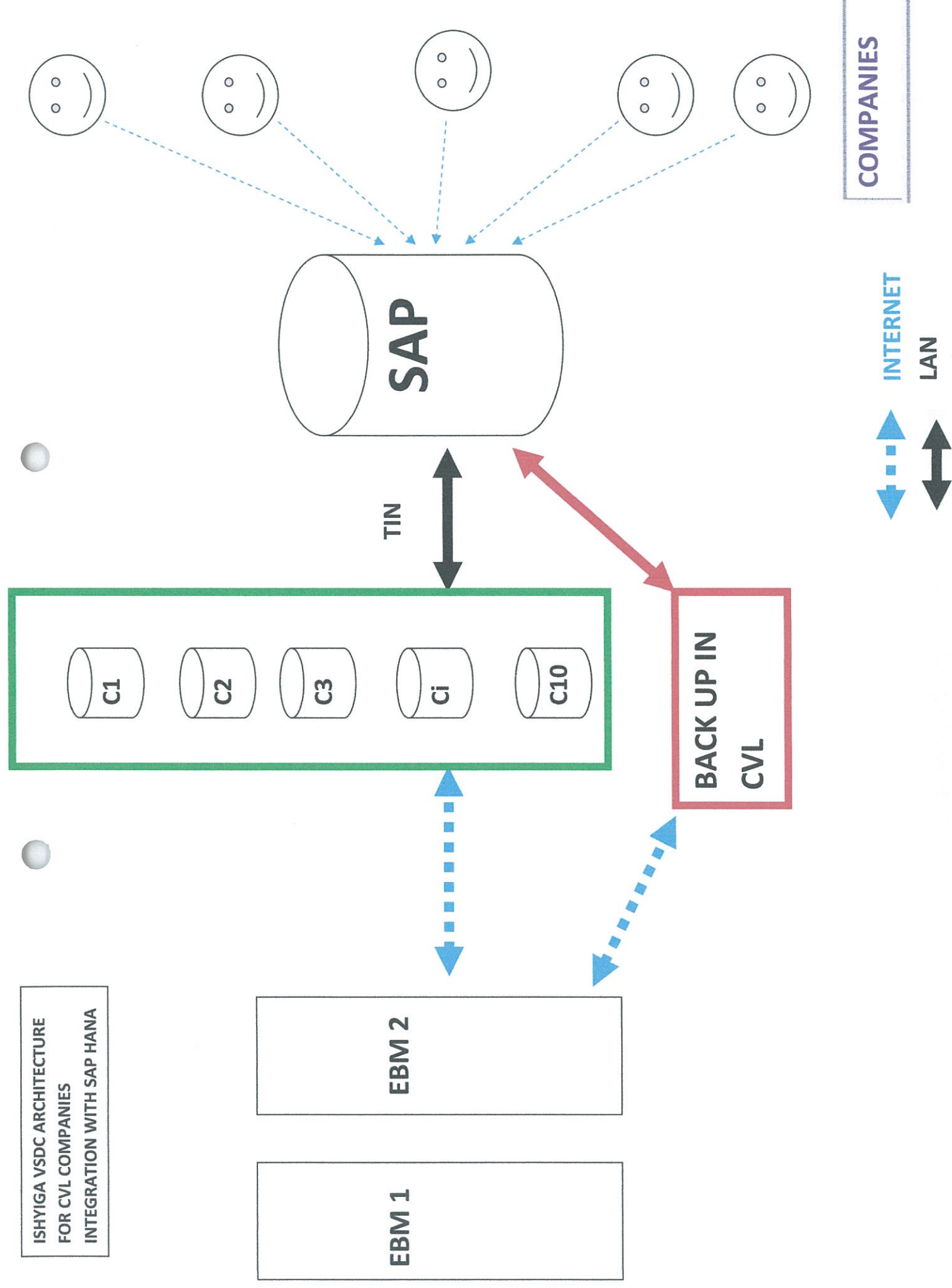
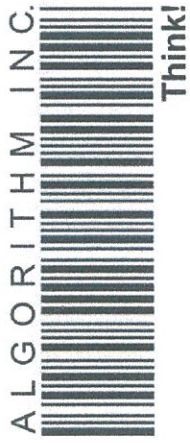


INFRASTRUCTURE

ISHYIGA VSDC ARCHITECTURE
FOR CVL COMPANIES
INTEGRATION WITH SAP HANA





TIMELINE

[illegible]



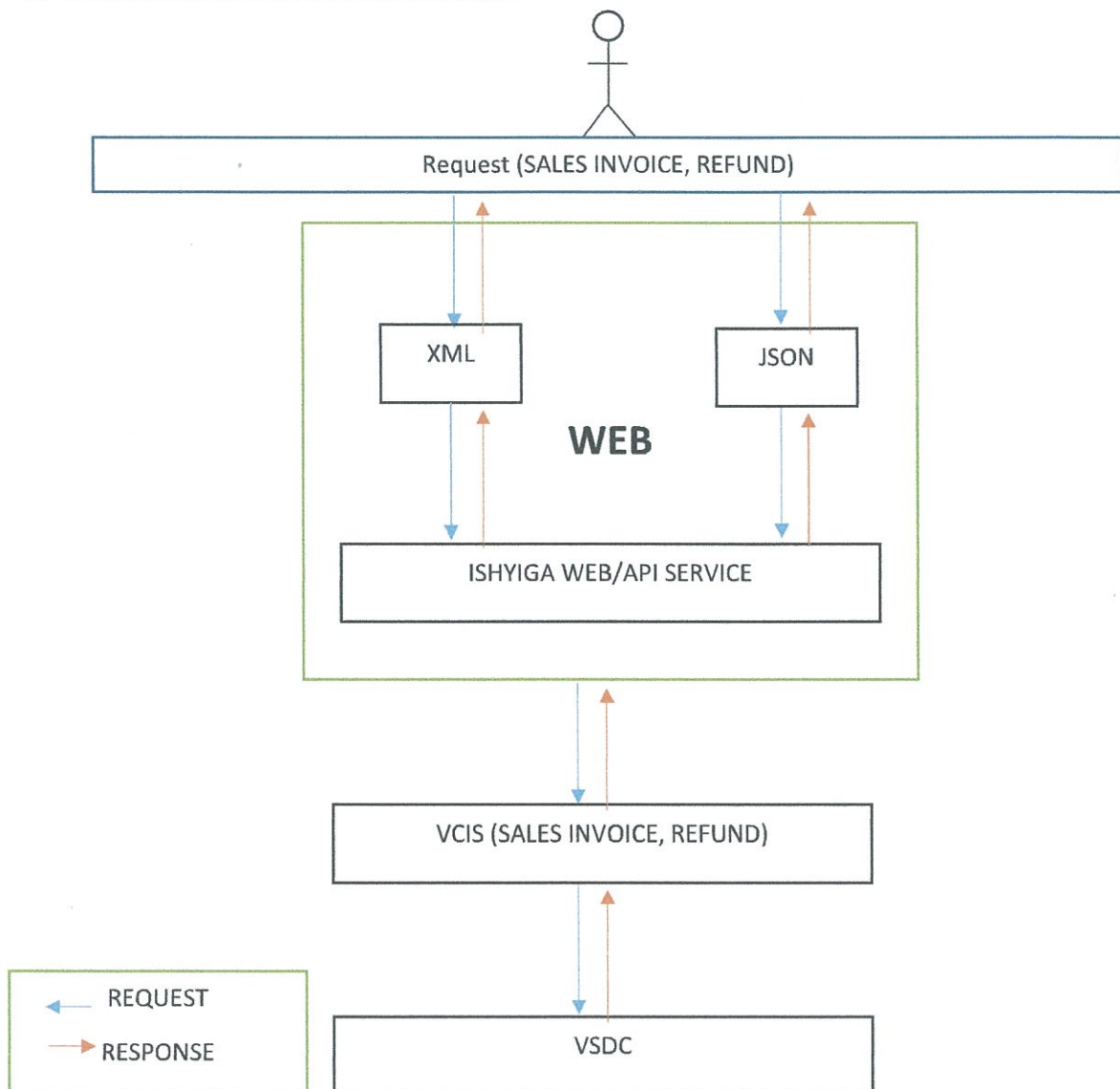
API DOCUMENTATION

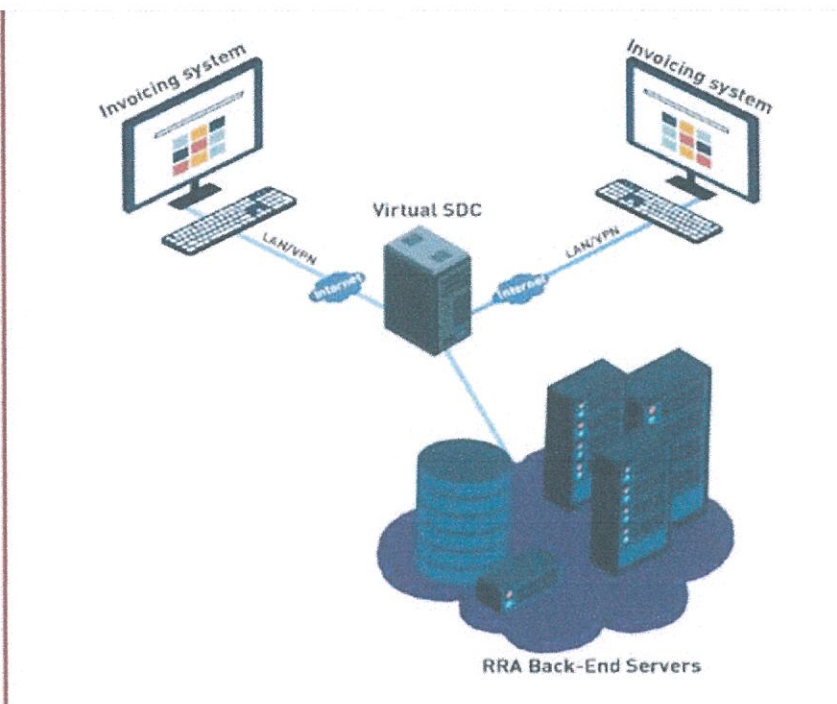
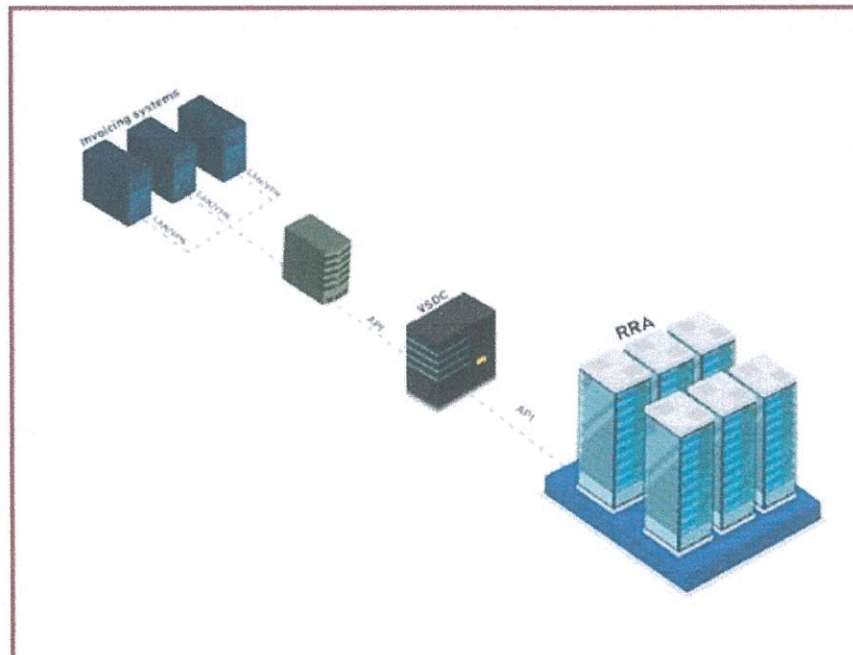
ISHYIGA INTEGRATION API DOCUMENTATION

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1. COMMUNICATION DIAGRAM





2. WEB/API SERVICES

2.1 API XML

API to post XML:

String url = "http://51.89.233.123/crystal/api/send_vsdcr_request.php";

3. FORMAT XML

3.1 TRANSACTIONS (INVOICE/REFUND)

<sdcrequest>

// ONE COMPANY IDENTIFICATION

```
<company>
<COMPANY_TIN>9990000005</COMPANY_TIN>
<COMPANY_NAMES>INYANGE INDUSTRIES</COMPANY_NAMES>
<COMPANY_SECURITY_KEY>ING@123!</COMPANY_SECURITY_KEY>
</company>
```

// TRANSACTION HEADER

```
<header>
<FLAG>INVOICE</FLAG>
<SALFCY>ARNAU</SALFCY>
<NUM>SAP1232010088</NUM>
<INVDAT>20200715</INVDAT>
<CUR>RWF</CUR>
<BPCINV>100003180</BPCINV>
<BPINAM>HOTEL CHEZ LANDO</BPINAM>
<TOTAL_VAT>0</TOTAL_VAT>
<TOTAL_AMOUNT>150</TOTAL_AMOUNT>
<ITEMS_COUNTS>2</ITEMS_COUNTS>
</header>
```

// ITEM LIST

```
<item_list>
<LIN>
<ITMREF>1000P1321</ITMREF>
<ITMDES> INYANGE MINERAL WATER 500ML </ITMDES>
<TAXRATE>0</TAXRATE>
<TAXCODE>B</TAXCODE>
<QUANTITY>1</QUANTITY>
```

```

<UNITYPRICE>100</UNITYPRICE>
<ITMDISCOUNT>0</ITMDISCOUNT>
</LIN>
<LIN>
<ITMREF>1000P1322</ITMREF>
<ITMDES> INYAMGE MINERAL WATER 1L </ITMDES>
<TAXRATE>0</TAXRATE>
<TAXCODE>B</TAXCODE>
<QUANTITY>1</QUANTITY>
<UNITYPRICE>50</UNITYPRICE>
<ITMDISCOUNT>0</ITMDISCOUNT>
</LIN>
</item_list>
</sdcrequest>;

```

4. POSSIBLE RESPONSES

4.1 WHEN ALL GOOD (FORMAT) AND IT IS THE FIRST TIME TO RECEIVE (XML)

XML

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<sdcreponseLeger>
<errorCode>PROCESSING</errorCode>
<ip>0:0:0:0:0:0:0:1</ip>
<message></message>
<num>YEGO000001</num>
<reply>true</reply>
<sender>ISHYIGA</sender>
<status>SUCCESS</status>
<ysdctime>Wed Oct 24 02:30:16 CAT 2018</ysdctime>
</sdcreponseLeger>

```

4.2 WHEN THE INVOICE EXISTS

XML

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<sdcreponseLeger>
<errorCode>EXIST</errorCode>
<ip>0:0:0:0:0:0:0:1</ip>
<message>RESPONSE EXISTS A2OVNQTGVFT2LXRHQR2CEODMNE</message>
<num>YEGO000001</num>
<reply>true</reply>
<sender>ISHYIGA</sender>
<status>SUCCESS</status>
<ysdctime>Wed Oct 24 02:30:47 CAT 2018</ysdctime>
</sdcreponseLeger>

```

4.3 WHEN THE FORMAT IS NOT GOOD

XML

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<sdResponseLeger>
<errorCode>B23 FORMAT NOT ACCEPTED</errorCode>
<ip>0:0:0:0:0:0:0:1</ip>
<message>CHECK THE STRING YOU ARE SENDING</message>
<num>INVALID INV</num>
<reply>true</reply>
<sender>ISHYIGA</sender>
<status>ERROR</status>
<ysdctime>Wed Oct 24 02:19:31 CAT 2018</ysdctime>
</sdResponseLeger>
```

5. REQUEST RESPONSE

URL 2:

String urlGET = "http://51.89.233.123/crystal/api/get_vsdc_response.php";

String valuetosendR = "<sdcrequest>\n"

```
    <company>
    <COMPANY_TIN>9990000005</COMPANY_TIN>
    <COMPANY_NAMES>INYANGE INDUSTRIES</COMPANY_NAMES>
    <COMPANY_SECURITY_KEY>ING@123!</COMPANY_SECURITY_KEY>
    </company>
    <header>
    <NUM> + ID </NUM>
    <FLAG>INVOICE</FLAG>
    </header>
    </sdcrequest>;
```

RESPONSE SAMPLE (SALE)

XML FORMAT

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<sdResponse>
<num>YEGO000001</num># Invoice id number
<ysdcid>SDC999000003</ysdcid># Sdc id that processed this invoice
<ysdcintdata>WWCJ-JVKD-JWZB-PTHU-6Y3C-ZBPX-OM</ysdcintdata># SDCinternal data
<ysdcitems>1</ysdcitems># number of items on invoice
<ysdcmrc>VALG01TES01</ysdcmrc># machine id that processed this invoice
<ysdcmrctim>05-05-2019 21:52:20</ysdcmrctim># machine time when invoice was processed
<ysdcrecnum>4/4 NS ISH:13826</ysdcrecnum># SDC and VCIS INVOICE ID
<ysdcresig>UINO-IN3J-FYGB-6WS5</ysdcresig># invoice signature fromsdc
<ysdctime>2019-05-05T21:52:19+02:00</ysdctime># sdc time when invoice was processed
</sdResponse>
```