Payments to grow your world

Worldline Tap on Mobile: WPI 1.0 migration guide

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WPI 1.0 to WPI 2.2 migration

Assumptions

This document describes only the minimum scope of changes that must be implemented to migrate from WPI version 1.0 to version 2.2. It is intended to facilitate this process.

This document does not describe all the differences between versions, in particular new features (e.g.: the LAST_TRANSACTION command) and business enhancements (e.g.: support for tips).

Full scope of WPI 2.2 functionalities offered by ToM is described in the specification on the developer portal (https://docs.smartpos.worldline-solutions.com/)

ToM also supports an intent-based process for terminal registration called WMI (Worldline Management Interface). The specifications are as well available on the developer portal ((https://docs.smartpos.worldline-solutions.com/).

WPI REQUEST (1/2)

New mandatory intent extras

Version 2.2 introduces new, mandatory elements in the intent call

👉 New mandatory intent extra data: **WPI_VERSION**
Expected: string; should be send "2.2"

Notice: this parameter in WPI 1.0 was optional, and had different type (integer instead of string)

👉 New mandatory intent extra data: **WPI_SESSION_ID**
Expected: string; The session id must be unique for each WPI request.

Notice: Used as an identifier of a WPI exchange (a request/response) between a client application and a payment application. Is used to recover the status of the exchange in case of an unexpected failure.

In the case of an unexpected failure during an exchange, the session id can be used by the client application in order to restore its state and sync the exchange status with the payment application.

WPI REQUEST (2/2)

Sample payment call for version 2.2

```java
public Intent formatPurchaseRequest(String sessionId, WpiPurchaseRequest req) {
    String json = GSON.toJson(req);

    Intent intent = new Intent("com.worldline.payment.action.PROCESS_TRANSACTION");
    intent.addFlags(Intent.FLAG_ACTIVITY_REORDER_TO_FRONT);
    intent.putExtra("WPI_SERVICE_TYPE", "WPI_SVC_PAYMENT");
    intent.putExtra("WPI_REQUEST", json); // json object with all bussines parameteres as amout, currency, etc
    intent.putExtra("WPI_VERSION", "2.2");
    intent.putExtra("WPI_SESSION_ID", sessionId); // eg. sessionId=UUID.randomUUID().toString()

    return intent;
}
```

WPI RESPONSE (1/3)

Responses comparison

WPI 1.0

```
{
    "actionCode": "WPI_ACTION_CODE_NONE",
    "applicationIdentifier": "A0000000031010",
    "applicationLabel": "VISA CREDIT",
    "authorizedAmount": 2,
    "brandName": "VISA",


    "currency": "PLN",
    "customerLanguage": "en",
    "dccOffered": true,
    "dccUsed": false,
    "entryMode": "WPI_ENTRY_MODE_NFC",
    "errorCondition": "WPI_ERR_COND_NONE",


    "paymentSolutionReference": "f6334b07-85ca-45e8-9f36-dd9813f1f88b",
    "formattedReceipt": {
        "client": "This is to confirm your transaction (…)",
        "merchant": "This is to confirm your transaction(…)"
    },


    "reference": "1200100x32041400x64041400x4200100",
    "remark": "Transaction finished",
    "result": "WPI_RESULT_SUCCESS",


    "timestamp": "2025-10-23T15:46:16+02:00"
}
```

WPI 2.2

```
{
    "actionCode": "WPI_ACTION_CODE_NONE",
    "applicationIdentifier": "A0000000031010",
    "applicationLabel": "VISA CREDIT",
    "authorizedAmount": 2,
    "brandName": "WPI_BRAND_NAME_VISA",                    ① CHANGED
    "cardDataInput": "WPI_CARD_DATA_INPUT_PROXIMITY_ICC",  ② NEW
    "cardholderVerificationMethod": "WPI_CVM_NO_CVM",      ③ NEW
    "currency": "PLN",
    "customerLanguage": "en",
    "dccOffered": true,                                    ④ CHANGED

    "entryMode": "WPI_ENTRY_MODE_NFC",
    "errorCondition": "WPI_ERR_COND_NONE",
    "merchantIdentifier": "102003271",                     ⑤ NEW
    "onBehalf": false,
    "paymentSolutionReference": "6775bf55-cc50-4232-aaf5-282d465238d1",
    "receipt": {
        "formatted": {
            "client": "This is to confirm your transaction(...)",
            "merchant": "This is to confirm your transaction(...)"
        }
    },                                                     ⑥ CHANGED

    "reference": "1200100x32041400x64041400x4200100",

    "result": "WPI_RESULT_SUCCESS",                        ⑦ CHANGED
    "terminalIdentifier": "WLIN0006",
    "terminalIdentifierLong": "ToM-WLIN0006-102003271",    ⑧ NEW
    "timestamp": "2025-10-23T15:53:33+02:00"
}
```

WPI RESPONSE (2/3)

List of changes (1/2)

1 👉 **brandName**

In WPI 1.0 in this tag application label read from card was presented. In WPI 2.2 the value has changed to dictionary (WPI_BRAND_NAME_MASTERCARD, WPI_BRAND_NAME_MASTERCARD_DEBIT, WPI_BRAND_NAME_MAESTRO, WPI_BRAND_NAME_VISA, WPI_BRAND_NAME_VISA_DEBIT, WPI_BRAND_NAME_VISA_ELECTRON, WPI_BRAND_NAME_VPAY, WPI_BRAND_NAME_JCB, WPI_BRAND_NAME_AMERICAN_EXPRESS, WPI_BRAND_NAME_DINERS_CLUB, WPI_BRAND_NAME_DISCOVER, WPI_BRAND_NAME_CHINA_UNIONPAY, WPI_BRAND_NAME_LOCAL_CREDIT_CARD, WPI_BRAND_NAME_GIROCARD, WPI_BRAND_NAME_CARTE_BANCAIRE, WPI_BRAND_NAME_BANCONTACT, WPI_BRAND_NAME_LOCAL_DEBIT_CARD, WPI_BRAND_NAME_ALIPAY, WPI_BRAND_NAME_WECHAT_PAY, WPI_BRAND_NAME_TWINT, WPI_BRAND_NAME_PAYCONIQ, WPI_BRAND_NAME_LOCAL_QR_CODE_BRAND, WPI_BRAND_NAME_BLIK, WPI_BRAND_NAME_OTHER)

2 👉 **cardDataInput**

New tag (cardDataInput) was added to WPI_RESPONSE; tag contains:
- for card transactions - WPI_CARD_DATA_INPUT_PROXIMITY_ICC
- for BLIK& APM transactions - WPI_CARD_DATA_INPUT_ALTERNATIVE_PAYMENT_METHOD

3 👉 **cardholderVerificationMethod**

New tag (cardholderVerificationMethod) was added to WPI_RESPONSE; tag contains one of following values: WPI_CVM_NO_CVM, WPI_CVM_PIN_ONLINE, WPI_CVM_SIGNATURE, WPI_CVM_CD_CVM

4 👉 **dccOffered/dccUsed**

Tags dccOffered and dccUsed will be available in the response only if they are true. If they are false, they will be omitted.

5 👉 **merchantIdentifier**

New tag (merchantIdentifier) was added to WPI_RESPONSE; tag contains Merchant MID

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WPI RESPONSE (3/3)

List of changes (2/2)

6 👉 **formattedReceipt**

The tag name has been changed, and it has been moved lower in the response structure. In WPI version 2.2, instead of "formattedReceipt": {...} the value should be taken from "receipt": {"formatted": {...}}

7 👉 **remark**

In WPI 1.0 tag was returned always. In WPI 2.2 it is returned only in case of error. For successful transactions tag will be skipped.
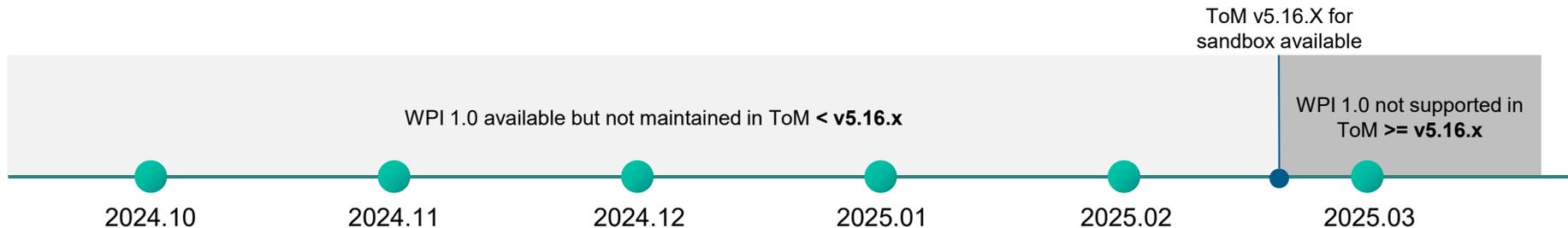
8 👉 **terminalIdentifier/terminalIdentifierLong**

New tags (terminalIdentifier and terminalIdentifierLong) was added to WPI_RESPONSE. terminalIdentifier tag contains terminal TID. terminalIdentifierLong is build as: "ToM-" + TID + "-" + MID eg: " ToM-WLIN0006-102003271"

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WPI 1.0 discontinuity

Key information and schedule considerations

- WPI 1.0 is currently supported by the Tap on Mobile Android applications but not actively maintained;
- This state will be continued up until Tap on Mobile v5.15.x;
- With releasing of Tap on Mobile v5.16.x WPI 1.0 will no longer be supported and 3rd party solutions need to migrate to newer WPI version;
- Anticipated timing is:
  - 2nd half of Feb 2025: ToM v5.16.x available for sandbox environment;
  - March 2025: ToM v5.16.x migrated to production;
- It is strongly recommended to migrate to newer WPI version before the productive rollout of ToM v5.16.x;

ToM v5.16.X for
sandbox available

WPI 1.0 available but not maintained in ToM **< v5.16.x**

WPI 1.0 not supported in
ToM **>= v5.16.x**

| 2024.10 | 2024.11 | 2024.12 | 2025.01 | 2025.02 | 2025.03 |

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We wish you a seamless migration!