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## TSP Monitor Tool

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## Introduction

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This document describes the Transaction Service Platform (TSP) Monitor Tool. This tool determines if TSP is up and running.

## Files for the Monitor Tool

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The Monitor Tool consists of two files:

File	Contains
.JAR file	The code for the Monitor Tool.
Resource file	The values that replace the defaults in the JAR file.

## Running the JAR File

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To execute the JAR file, enter a command at the DOS prompt in the following format:

```
C:\> java -jar [JAR filename] -[arguments] [Properties path-to-properties filename]
```

Example:

```
C:\> java -jar test-tool.jar -inv invoice.properties -pay payment.properties -info  
information.properties -prod product.properties
```

The following table lists the available command-line arguments.

Argument	Description
-m	Mock data. If you use mock data, do not use the <code>-cfg</code> , <code>-inv</code> , and <code>-pay</code> arguments to specify properties files.
-cfg <file>	The path of the properties file for the configuration.
-inv <file>	The path of the properties file for the invoice.
-pay <file>	The path of the properties file for a payment related to the specified invoice.
-info <file>	The path of the properties file for transaction information.
-prod <file1> [<file2>] [...]	The paths of properties files for product information.
-h	Help.
-r	Report mode.

## Output from the JAR File

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After you enter the command shown in the example above, verbose output appears. The output contains the following four segments:

- Login request
- Login response
- Payment report request
- Payment report balance

Each segment begins with a "20" code.

### Login Request

```
20 (APIMSG) len=103 : [Constructed]
21 (HEADER) len=37 : [Constructed]
DF00 (PROTOCOL_VERSION) len=1 : Integer(1)
DF0B (TIMEZONE) len=9 : Text(GMT-04:00)
DF0A (TIMESTAMP) len=14 : Text(20130630144746)
DF0E (LOCALE) len=1 : Text(C)
23 (ACCESS_CONTROL) len=62 : [Constructed]
DFCF00 (CLIENT_CONFIGURATION_VERSION) len=4 : Integer(0)
DF8000 (COMMAND) len=1 : Binary, order -> (01)
DF16 (REMOTE_ADDRESS) len=8 : Text(ROAMPAYX)
DF17 (REMOTE_ADDRESS_TYPE) len=13 : Text(ROAMPAYX_TYPE)
DF20 (USERNAME) len=8 : Text(tspadmin)
DF21 (PASSWORD) len=8 : Text(R0amdata)
```

### Login Response

```
20 (APIMSG) len=575 : [Constructed]
21 (HEADER) len=33 : [Constructed]
DF00 (PROTOCOL_VERSION) len=1 : Integer(1)
DF0A (TIMESTAMP) len=14 : Text(20130630144500)
DF0B (TIMEZONE) len=9 : Text(GMT-04:00)
23 (ACCESS_CONTROL) len=536 : [Constructed]
38 (EVENTS) len=5 : [Constructed]
DFD403 (EVENT_CHANGE_PASSWORD) len=1 : Binary, order -> (01)
DF01 (LOGIN_TOKEN) len=32 : Text(C5002316DF43B3BFC07B538D9D2A4D62)
DF14 (PERMISSIONS) len=279 :
  Text({"roampayx.avs":"off","roampayx.cvv":"off","roampayx.discount":"on",
  "roampayx.manualEntry":"off","roampayx.offline":"on","roampayx.refund":"on",
  "roampayx.signatureCapture":"required","roampayx.surcharge":"on",
  "roampayx.tax":"on","roampayx.timeout":"required","roampayx.tip":"on"})
```

```
DF15 (RESPONSE) len=2 : Binary, order -> (00 00)
DF18 (HARDWARE_PERMISSION) len=201 :
  Text({"1234567897":"ACTIVATED","1234567896":"ACTIVATED","1234567895":"ACTIVATED",
    "1234567894":"ACTIVATED","1234567893":"ACTIVATED","1234567892":"ACTIVATED",
    "1234567891":"ACTIVATED","1234567890":"ACTIVATED"})
Permission:
{"roampayx.avs":"off","roampayx.cvv":"off","roampayx.discount":"on",
  "roampayx.manualentry":"off","roampayx.offline":"on","roampayx.refund":"on",
  "roampayx.signaturecapture":"required","roampayx.surcharge":"on",
  "roampayx.tax":"on","roampayx.timeout":"required","roampayx.tip":"on"}
```

## Payment Report Request

```
20 (APIMSG) len=471 : [Constructed]
21 (HEADER) len=72 : [Constructed]
DF01 (LOGIN_TOKEN) len=32 : Text(C5002316DF43B3BFC07B538D9D2A4D62)
DF00 (PROTOCOL_VERSION) len=1 : Integer(1)
DF0B (TIMEZONE) len=9 : Text(GMT-04:00)
DF0A (TIMESTAMP) len=14 : Text(20130630144746)
DF0E (LOCALE) len=1 : Text(C)
27 (REPORTS) len=393 : [Constructed]
28 (REPORT) len=389 : [Constructed]
29 (INVOICE) len=46 : [Constructed]
DF45 (ONLINE_OFFLINE) len=1 : Integer(0)
DF50 (CURRENCY) len=3 : Text(USD)
DF51 (AMOUNT) len=4 : Integer(550304)
DF0B (TIMEZONE) len=9 : Text(GMT-04:00)
DF0A (TIMESTAMP) len=14 : Text(20130630144746)
2A (PAYMENTS) len=86 : [Constructed]
2B (PAYMENT) len=84 : [Constructed]
DF63 (AUTHORIZED_TOTAL) len=4 : Integer(550304)
DF62 (ORIGINAL_REQUESTED_AUTH_AMOUNT) len=4 : Integer(550304)
DF61 (PAYMENT_TYPE) len=2 : Binary, order -> (00 00)
DF15 (RESPONSE) len=2 : Binary, order -> (00 00)
DF70 (PROCESSOR_RESPONSECODE) len=7 : Text(RESCODE)
DF65 (ENTRY_MODE) len=1 : Binary, order -> (02)
DF76 (HARDWARE_SERIAL_NUMBER) len=10 : Text(1234567890)
DF6E (AUTH_CODE) len=6 : Text(AUTHCO)
DF66 (CARD_TYPE) len=4 : Text(VISA)
DF0A (TIMESTAMP) len=14 : Text(20130630144746)
2D (PRODUCTS) len=68 : [Constructed]
2E (PRODUCT) len=66 : [Constructed]
DF4A (PRODUCT_ID) len=15 : Text(Item:1276500226)
DF4B (PRODUCT_NAME) len=10 : Text(RandomItem)
DF4E (PRODUCT_DESCRIPTION) len=18 : Text(Random Description)
DF4F (PRODUCT_QUANTITY) len=4 : Integer(2)
DF49 (PRODUCT_SUBTOTAL) len=4 : Integer(2000)
2C (INFORMATION) len=180 : [Constructed]
```

```
DF48 (ORDER_ID) len=19 : Text(Merchant:-988616718)
DF0D (DESCRIPTION) len=23 : Text(Credit Transaction Note)
DF2A (EMAIL) len=19 : Text(sgedik@roamdata.com)
DFC700 (ACCEPT_AGREEMENT) len=1 : Binary, order -> (01)
DFF000 (ADDRESS1) len=14 : Text(280 Summer St,)
DFF100 (ADDRESS2) len=11 : Text(Lobby Floor)
DFF400 (CITY) len=6 : Text(BOSTON)
DFF500 (STATE) len=2 : Text(MA)
DFF300 (ZIP) len=5 : Text(02210)
DFF600 (COUNTRY) len=3 : Text(USA)
DFF700 (FULL_ADDRESS) len=36 : Text(280 FullAddress st, Boston, MA 12345)
```

## Payment Report Balance

```
20 (APIMSG) len=83 : [Constructed]
21 (HEADER) len=33 : [Constructed]
DF00 (PROTOCOL_VERSION) len=1 : Integer(1)
DF0A (TIMESTAMP) len=14 : Text(20130630144500)
DF0B (TIMEZONE) len=9 : Text(GMT-04:00)
27 (REPORTS) len=46 : [Constructed]
28 (REPORT) len=44 : [Constructed]
DF15 (RESPONSE) len=2 : Binary, order -> (00 00)
DF40 (INVOICE_ID) len=36 : Text(INV-1D1CFB67DC1CB10C48065BC27CFB823C)
payment action is true
payment response code is SUCCESS
```

## Exit Codes

Every time you run a JAR file, Java returns the following exit codes to the operating system.

Code	Description
0	Success.
1	Missing command-line arguments. (Must at least pass the TSP host and port.)
-1	One or more failed transactions.
-2	A problem with api5LibCore.
-3	A problem reading the properties file.