

CTS User Guide

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Contents

Contents						
1.	Int	troduction	4			
1	.1.	Pre-requisites	4			
1	.2.	Logging in to CTS	4			
1	.3.	Viewing the CTS Dashboard	5			
2.	Ru	nning Standard Tests	6			
2	2.1.	POS Transaction Test	7			
2	2.2.	ATM Transaction Test	8			
2	2.3.	E-commerce Transaction Test	9			
2	2.4.	MOTO	10			
3.	Tra	ansaction History	11			
4.	4. Clearing					
5. Smart Client UAT Validation						
6.	Со	mmon Errors	14			
	6.1	.1. Transaction timeout	14			
7.	FA	Q	15			
8.	8. Glossary					
9.	Document History					



1. Introduction

The Card Transaction Service (CTS) helps you to integrate your systems with the GPS Apex authorization system. The service is written as SOAP and REST service and enables you to submit card test transactions in the UAT environment in line with your program setup. All input parameters are simple (string or numeric), making integration and testing simple and fast.

1.1. Pre-requisites

To access CTS, you need the following:

- Have your IP address(s) whitelisted if different to web services IP address(s)
- Your program setup in UAT
- A username and password (you can use the same credentials which you use to access <u>Smart Client UAT with CTS enabled</u>)
- EHI setup at product level

To submit test transactions, you need the following:

- Cards created, activated and has available balance
- 9-digit token, CVV2, PIN* and Expiry Date (provided in the Ws_CreateCard web service response)

Note: If PIN is not stipulated in the Ws_CreateCard web service, you can use Ws_PINControl to set the PIN.

1.2. Logging in to CTS

You can access CTS at: https://cts-uat.globalprocessing.net:54340/

The login screen appears:



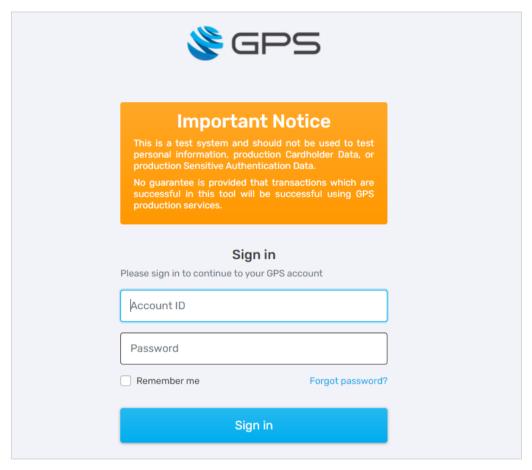


Figure 1: GPS Login Screen

Note: If you try to access the URL and see the message "**This site can't be reached**", this means that your IP address is not whitelisted on our system.

1.3. Viewing the CTS Dashboard

Once successfully logged into the CTS platform you can view the tests available:

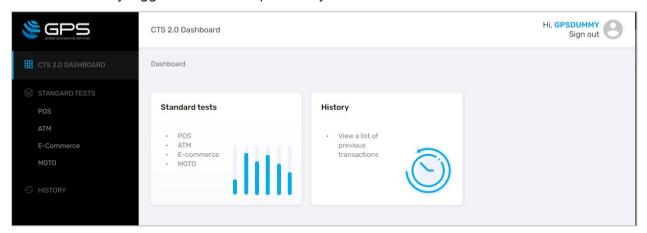


Figure 2: CTS Dashboard



2. Running Standard Tests

You can carry out several types of simulation tests on CTS:

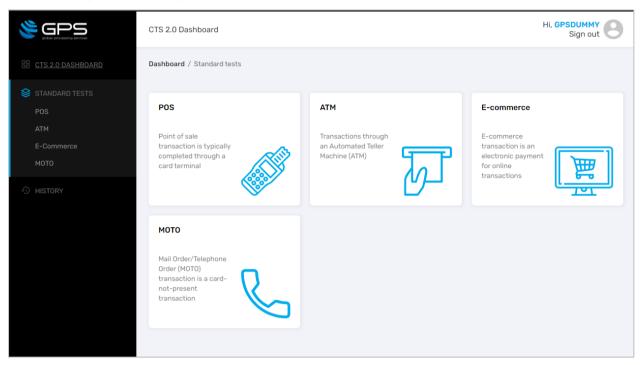


Figure 3: Standard Tests Screen

Click the icon of the simulation test you want to run. The following tests are available:

- **POS** simulates a Point of sale transaction completed through a card terminal
- **ATM** simulates a balance enquiry or cash withdrawal transaction made on an Automated Teller Machine (ATM)
- MOTO simulates a Mail Order/Telephone Order (MOTO) transaction
- **E-Commerce** simulates an online, e-commerce transaction



2.1. POS Transaction Test

You can use this test to simulate a Point of Sale (POS) transaction on a card terminal.

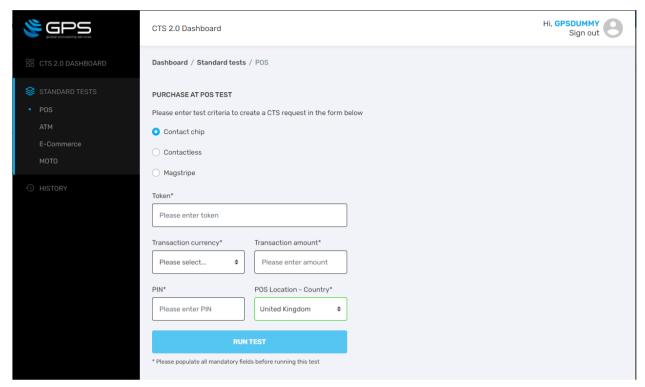


Figure 4: POS Transaction Test Screen

- 1. Select the card element being tested:
 - Contact chip
 - Contactless
 - Magstripe
- 2. Enter the 9-digit **Token**, **Transaction currency**, **Transaction amount**, card **PIN** and **POS Location (Country)**.

Note: If the transaction currency is different to the billing currency of the card then GPS will provide the transaction amount according to the exchange rate.



2.2. ATM Transaction Test

You can use this test to simulate an ATM Balance enquiry or cash withdrawal at an ATM location.

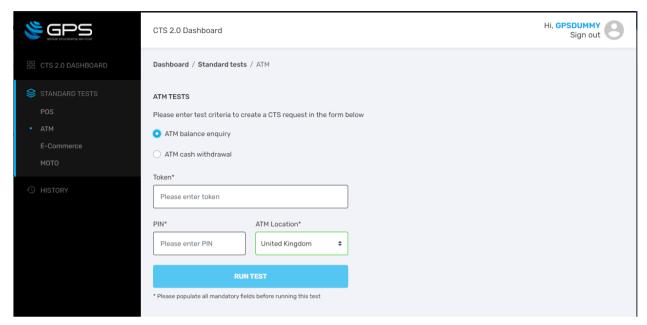


Figure 5: ATM Transaction Test Screen

- 1. Select the ATM element being tested:
 - ATM balance enquiry
 - ATM cash withdrawal
- 2. Enter the 9-digit **Token**, **Transaction currency**, **Transaction amount**, card **PIN** and **ATM Location** (Country).

Note: If the transaction currency is different to the billing currency of the card then GPS will provide the transaction amount according to the exchange rate.



2.3. E-commerce Transaction Test

You can use this test to simulate an e-commerce transaction made through an online website.

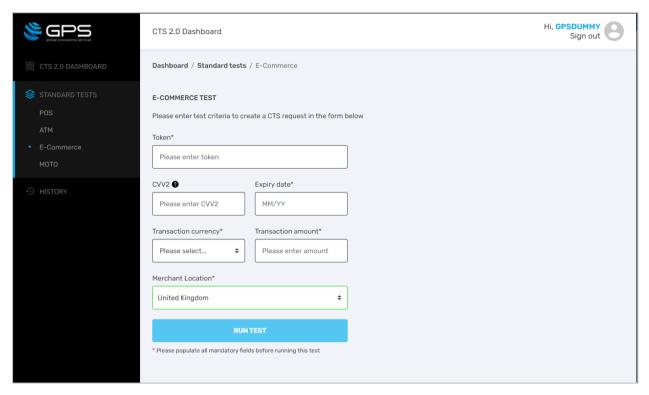


Figure 6: E-Commerce Transaction Test Screen

- 1. Enter the 9-digit **Token**, the cards' **CVV2** (if required) and the card **Expiry date**.
- 2. Enter the **Transaction currency**, **Transaction amount**, and **Merchant Location** (Country).

Note: If the transaction currency is different to the billing currency of the card then GPS will provide the transaction amount according to the exchange rate.



2.4. MOTO

You can use this test to simulate a Mail and Telephone Order (MOTO) transaction, which is a payment made over the telephone (e.g., via a Call centre) or via a mail order catalogue.

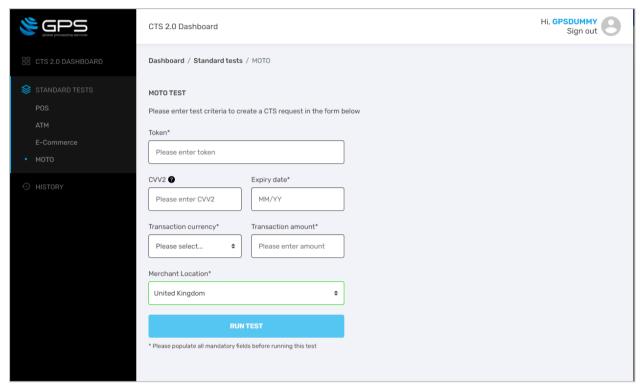


Figure 7: MOTO Transaction Test Screen

- 1. Enter the 9-digit **Token**, the cards' **CVV2** (if required) and the card **Expiry date**.
- 2. Enter the **Transaction currency**, **Transaction amount**, and **Merchant Location** (Country).

Note: If the transaction currency is different to the billing currency of the card then GPS will provide transaction the amount according to the exchange rate.



3. Transaction History

The History screen displays a list of all the transactions made using CTS.

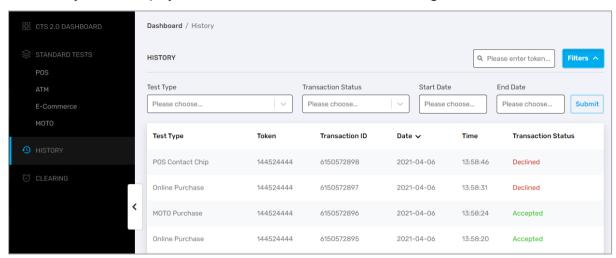


Figure 8: History Screen

You can use the filter options to help refine the list of transactions.



4. Clearing

The Clearing screen displays a list of all eligible transactions made using CTS that can be cleared to simulate the financial presentment transaction.

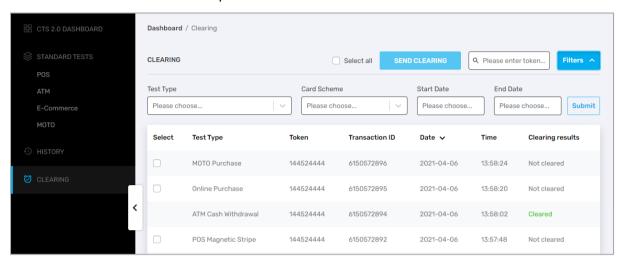


Figure 9: Clearing Screen

- 1. You can use the filter options to refine the list of transactions.
- 2. Using the tick box on the left, select the authorisations you want to clear.
- 3. Click Submit.



5. Smart Client UAT Validation

You can use Smart Client UAT to see the transactions that have taken place on the card by either searching by the 9-digit token or transaction ID provided back in the CTS responses. For details, see the *Smart Client User Guide*.



Figure 9: Smart Client Transactions Screen



6. Common Errors

The CTS system provides a response each time a transaction is executed. Depending on the information that is sent, the transaction is either *approved* or *declined*. If the transaction is declined the system provides a relevant reason and response code.

For a list of response codes please refer to the GPS External Host Interface Guide.

6.1.1. Transaction timeout

If the system does not receive a response in the required period, a timeout occurs, and a 400 or 500 error is returned. The transaction will will show as aborted in the history screen. If this continues please raise a Jira ticket for further investigation.



7. FAQ

Q. What MCC codes are used?

The following Merchant Category Codes (MCC) are used:

- E-commerce: 5734 Computer Software Stores
- MOTO: 5311 Department Stores
- POS: 5734 Computer Software Stores
- ATM: 6011 Automated Cash Disburse

Q. What merchant name is displayed on the transactions?

The following Merchant names will be displayed:

- E-commerce: e-comm merchant
- MOTO: moto merchant
- POS: Shop with Chip POS
- ATM: offsite ATM

Q. Are PSD2 counter limits validated in CTS?

Currently the CTS system does not validate against any PSD2 counters that may be setup in the system as there are a number of different hosts that can manage these limits.

Q. Are contactless limits validated in the CTS tests?

Due to the contactless limits varying by country, currency and merchant unfortunately CTS will not be able to validate this.

Q. What FX Rate does CTS provide?

If the transaction currency is different to the billing currency of the card GPS will provide an FX transaction based on static values pulled from a database. These rates may not represent the market value.



8. Glossary

This section explains terms used in this document.

'			
Contact chip	Card transaction where the POS terminal reads and validates the card's chip.		
Contactless	Secure payment method using a debit or credit card or another payment device by using RFID technology and near-field communication. To use the system, a cardholder taps the payment card near a POS terminal equipped with the technology.		
CVV2	The Card Verification Value (CVV) is a 3-digit number on VISA and MasterCard branded credit and debit cards. Cardholder's are typically required to enter the CVV during any online or cardholder not present transactions. CVV numbers are also known as CVV2 numbers, which are the same as CVV numbers, except that they have been generated by a 2nd generation process that makes them harder to guess.		
ЕНІ	The GPS External Host Interface (EHI) is a system which provides real-time transactional data and control over your transaction authorisations.		
GPS Web Services	GPS's SOAP based Application Program Interface (API) which enables integration of your systems with GPS.		
Issuer	The card issuer, typically a financial organisation authorised to issue cards. The issuer has a direct relationship with the relevant card scheme.		
Magstripe	The magnetic stripe on the back of the card. Can be used for a card point of sale (POS) transaction using a merchant POS terminal.		
Merchant	The shop or store providing a product or service that the cardholder is purchasing. Physical stores use a terminal or card reader to request authorisation for transactions. Online sites provide an online shopping basket and use a payment service provider to process their payments.		
Merchant Category Code (MCC)	A unique identifier of the merchant, to identity the type of account provided to them by their acquirer.		
мото	Mail and Telephone Order (MOTO) transaction, which is a payment made over the telephone (e.g., via a Call centre) or via a mail order catalogue.		
POS	Point of Sale transaction.		
Smart Client	GPS's user interface for managing your account on the GPS system. Smart Client is installed as a desktop application and requires a VPN connection to GPS systems in order to be able to access your account.		



9. Document History

Version	Description	Author	Date
1.0	First version	AW	09/02/2021
1.1	Clearing added	AW	13/04/2021