

Release Notes



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Revision

Version: 1

Contents

Release Notes.....	4
Announcements.....	5
Features Introduced This Week.....	13
Fixed Issues.....	14
Known Issues.....	15

Release Notes

These release notes cover all releases to the production server for the week ending November 29, 2024.

Announcements

Important: SOAP Toolkit Update

As part of ongoing Security Enhancements, we are planning to upgrade SOAP API authentication to P12 authentication. This upgrade is currently available for Java, C#, and PHP.

You can upgrade to P12 Authentication in your SOAP toolkit by doing the following:

- Create a P12 certificate.
- Update the files in your project directory.
- Add your certificate information to a `toolkit.properties` file in your project directory.
- Update your `pom.xml` file.

You must upgrade the SOAP authentication to use P12 by February 13, 2025.



Important

This update is currently available only for the C#, Java, and PHP SOAP Toolkit. The updated SDK is available here on GitHub:

- [C# SOAP toolkit](#)
- [Java SOAP toolkit](#)
- [PHP SOAP toolkit](#)

Other toolkits will be available in January 2025.

This Java SOAP Toolkit update works only with [WSDL](#) or [XSD](#) 1.219 or earlier.

Java Prerequisites

You must create a P12 certificate. See the [Getting Started with REST Developer Guide](#). With this change to use a P12 certificate in your Java SOAP toolkit configuration, your application must meet these new requirements:

- Java 9 or higher
- Jakarta XML Web Services API
- JAX-WS Runtime

- Jakarta XML Web Services Distribution
- Bouncy Castle Cryptography APIs for JDK 1.5 to JDK 1.8
- Apache XML Security
- WSDL 1.219 or earlier

C# Prerequisites

You must create a P12 certificate. See the [Getting Started with REST Developer Guide](#). With this change to use a P12 certificate in your C# SOAP toolkit configuration, your application must meet these new requirements:

- .NET Framework 4.7.2 and later Redistributable Package
- [NuGet Command-Line Interface](#)
- Portable.BouncyCastle

PHP Prerequisites

You must create a P12 certificate. See the [REST Getting Started Developer Guide](#). With this change to use a P12 certificate in your PHP SOAP toolkit configuration, the new requirements for your application will be:

- PHP 5.6x and higher
- PHP SOAP extension
- PHP OpenSSL extension

Java Migration Steps

Follow these steps to upgrade your Java code:

1. Add these dependencies to the `pom.xml` file:

```
<dependencies>
  <dependency>
    <groupId>jakarta.xml.ws</groupId>
    <artifactId>jakarta.xml.ws-api</artifactId>
    <version>4.0.2</version>
  </dependency>
  <dependency>
    <groupId>com.sun.xml.ws</groupId>
    <artifactId>jaxws-rt</artifactId>
    <version>4.0.3</version>
    <scope>runtime</scope>
  </dependency>
  <dependency>
    <groupId>com.sun.xml.ws</groupId>
    <artifactId>jaxws-ri</artifactId>
    <version>4.0.3</version>
    <type>pom</type>
  </dependency>
  <dependency>
    <groupId>org.bouncycastle</groupId>
    <artifactId>bcprov-jdk15to18</artifactId>
    <version>1.78</version>
```

```

</dependency>
<dependency>
  <groupId>org.apache.santuario</groupId>
  <artifactId>xmlsec</artifactId>
  <version>4.0.3</version>
</dependency>
</dependencies>

```

2. Add this plugin to the `pom.xml` file:

```

<build>
  <plugins>
    <plugin>
      <groupId>com.sun.xml.ws</groupId>
      <artifactId>jaxws-maven-plugin</artifactId>
      <version>4.0.3</version>
      <configuration>
        <wsdlUrls>
          <wsdlUrl>https://ics2wstest.ic3.com/commerce/1.x/transactionProcessor/
CyberSourceTransaction_1.219.wsdl</wsdlUrl>
        </wsdlUrls>
        <keep>true</keep>
        <packageName>com.cybersource.stub</packageName>
        <sourceDestDir>src/main/java</sourceDestDir>
      </configuration>
    </plugin>
  </plugins>
</build>

```

3. Check the value that is set in the `wsdlUrl` tag, and update the version if necessary. The highest version of the WSDL that can be supported is 1.219.
4. Run this command in your terminal:

```
mvn clean jaxws:wsimport
```

5. Find these lines in your existing code:

```

TransactionProcessorLocator service = new
  TransactionProcessorLocator();

URL endpoint = new URL(SERVER_URL);

ITransactionProcessorStub stub =
  (ITransactionProcessorStub) service.getPortXML
  (endpoint);

stub._setProperty(WSHandlerConstants.USER, request
  .getMerchantID());

```

Replace them with these lines:

```

TransactionProcessor service = new TransactionProcessor();

service.setHandlerResolver(portInfo ->{
  List < Handler > handlerList = new ArrayList < >();
  handlerList.add(new BinarySecurityTokenHandler());

```

```
return handlerList;
});

ITransactionProcessor stub = service.getPortXML();
```

6. Copy these files to your project directory:

- `BinarySecurityTokenHandler.java`
- `PropertiesUtil.java`
- `SecurityUtil.java`

7. Add a `toolkit.properties` file in the `src/main/resources` folder in your project. The `toolkit.properties` file must contain this content:

```
MERCHANT_ID = <your_merchant_id>
LIB_VERSION = 4.0.3
KEY_ALIAS = <your_certificate_key_alias>
KEY_FILE = <your_certificate_file>
KEY_PASS = <your_certificate_password>
KEY_DIRECTORY = src/main/resources
```

If you want to use your own properties file, you can make these changes in the `PropertiesUtil.java` file.

8. Add your P12 certificate to your key directory.

9. Run these commands in your terminal:

```
mvn clean install
```

```
java -jar target\JavaSoapToolkit.jar
```

You can confirm that your configuration is updated successfully by sending a test request. A successful configuration is indicated when the request log shows that the request was authenticated using a Bearer token.

C# Migration Steps

Follow these steps to upgrade your C# code:

1. Add the following service URL as a service reference to your project:

```
https://ics2wstest.ic3.com/commerce/1.x/transactionProcessor/CyberSourceTransaction_N.NNN.wsdl
```

where N.NNN is the latest server API version.

This will generate a Connected Services section in your project. It will also generate an `app.config` file for your project.

2. Add the following sections to the top of your `app.config` file:

```
<configuration>
  <configSections>
    <section name="toolkitProperties" type="System.Configuration.NameValueSectionHandler"/>
  </configSections>

  <toolkitProperties>
```



```

<add key="MERCHANT_ID" value="<your_merchant_id>"/>
<add key="KEY_ALIAS" value="<your_certificate_key_alias>"/>
<add key="KEY_FILE" value="<your_certificate_file>"/>
<add key="KEY_PASS" value="<your_certificate_password>"/>
<add key="KEY_DIRECTORY" value="<path/to/certificate/file>"/>
</toolkitProperties>
</configuration>

```



Important

The `<configSections>` tag must be the first section inside `<configurations>`.

- In the generated `app.config` file, leave the `<binding>` section as it is. The `<binding>` section must look like this:

```

<bindings>
  <basicHttpBinding>
    <binding name="ITransactionProcessor">
      <security mode="Transport"/>
    </binding>
  </basicHttpBinding>
</bindings>

```

- Add this dependency to the `packages.config` file:

```

<packages>
  <package id="Portable.BouncyCastle" version="1.9.0" targetFramework="net472" />
</packages>

```

- Install the dependency:

```
nuget install packages.config -OutputDirectory packages
```

- Add this package reference to your `.csproj` file:

```

<Reference Include="BouncyCastle.Crypto, Version=1.9.0.0, Culture=neutral,
  PublicKeyToken=0e99375e54769942, processorArchitecture=MSIL">
  <HintPath>packages\Portable.BouncyCastle.1.9.0\lib\net40\BouncyCastle.Crypto.dll</HintPath>
</Reference>

```

The steps for adding a new dependency can also be done through Visual Studio Package Manager.

- Add your P12 certificate to the `KEY_DIRECTORY`. This `KEY_DIRECTORY` location must be accessible by your code. Ensure that your code has permissions to read this location.
- Copy these files to your project directory and import them to your project:
 - CertificateCacheUtility.cs
 - InspectorBehavior.cs
 - PropertiesUtility.cs
 - SecurityUtility.cs
 - SoapEnvelopeUtility.cs

9. Find these lines in your existing code:

```
TransactionProcessorClient proc = new TransactionProcessorClient();

proc.ChannelFactory.Credentials.UserName.UserName = request.merchantID;
proc.ChannelFactory.Credentials.UserName.Password = TRANSACTION_KEY;

ReplyMessage reply = proc.runTransaction(request);
```

and replace them with these lines:

```
TransactionProcessorClient proc = new TransactionProcessorClient();

proc.Endpoint.EndpointBehaviors.Add(new InspectorBehavior());

ReplyMessage reply = proc.runTransaction(request);
```

10. Find your installation of .NET Framework.

This is often located at `C:\Windows\Microsoft.NET\Framework\v4.0.30319` (32-bit) or `C:\Windows\Microsoft.NET\Framework64\v4.0.30319` (64-bit).

11. Use `msBuild.exe` to compile your project.

```
<path_to_framework>\msBuild.exe <name_of_project>.csproj
```

12. Run the project executable:

```
bin\<configuration>\<project_name>.exe
```

You can confirm that your configuration is updated successfully by sending a test request. A successful configuration is indicated when the request log shows that the request was authenticated using a Bearer token.

PHP Migration Steps

Follow these steps to upgrade your existing PHP code:

1. Update the following service URL (`WSDL_URL`) in your code:

```
https://ics2wstest.ic3.com/commerce/1.x/transactionProcessor/CyberSourceTransaction_N.NNN.wsdl
```

where N.NNN is the latest server API version.

2. Copy these files to your project directory:

- ExtendedClientWithToken.php
- PropertiesUtility.php
- SecurityUtility.php

3. Locate these lines in your existing code:

```
$soapClient = new ExtendedClient(WSDL_URL, array());
```

and replace them with these lines:

```
$soapClient = new ExtendedClientWithToken(
```

```

WSDL_URL,
array(
  'SSL' => array(
    'KEY_ALIAS' => 'YOUR KEY ALIAS',
    'KEY_FILE' => 'YOUR CERTIFICATE FILE',
    'KEY_PASS' => 'YOUR KEY PASS',
    'KEY_DIRECTORY' => 'PATH TO CERTIFICATES'
  )
)
);

```

4. Update the necessary values for the following fields in your code:

- `MERCHANT_ID`
- `KEY_ALIAS`
- `KEY_FILE`
- `KEY_PASS`
- `KEY_DIRECTORY`

5. Add your P12 certificate to the `KEY_DIRECTORY`.

This `KEY_DIRECTORY` location must be accessible by your code. Ensure that your code has permissions to read this location.

6. Run the code:

```
php <sample_PHP_file>
```

You can confirm that your configuration is updated successfully by sending a test request. A successful configuration is indicated when the request log shows that the request was authenticated using a Bearer token.

SSL/TLS Certification Migration

To uphold the maximum levels of security and compliance in both your browser-based and server-to-server interactions with the Visa Acceptance Solutions platform (including Cybersource), we are transitioning all Cybersource endpoint SSL/TLS certificates from Entrust to DigiCert. These SSL/TLS certificates, originally issued by Entrust, will now be issued by DigiCert to fortify these communication channels.

Merchants using Cybersource endpoints should coordinate with their network team or hosting/solution provider to implement all necessary measures to ensure their connections to Cybersource properties follow industry standards. This includes updating their systems with the new Root and Intermediate (CA) SSL/TLS certificates that correspond to the specific Cybersource endpoint they use.

If your application requires trusting of certificates at the server level, you must install (trust) the new certificates prior to expiration of existing certificates to avoid any production impact. The link to the Server-Level (leaf) SSL certificate will be updated when they become available.



Important

We recommended that merchants trust only the Root and Intermediate CA SSL/TLS certificates on all secure endpoints. This method avoids the annual necessity to renew the server-level certificate.

Do not revoke or remove any of your existing Entrust certificates linked with Cybersource endpoints before the scheduled dates. Until the cut-off dates, the only supported certificates will be the Entrust SSL certificates. You may add the new certificates to your system, in addition to the existing certificates, and verify their functionality in the testing environment.

There will be two phases and each phase will update different endpoints.

First Phase

The first phase is complete and updated the following endpoints:

Test URLs	Production URLs
apitest.cybersource.com	accountupdater.cybersource.com
accountupdatertest.cybersource.com	api.cybersource.com
batchtest.cybersource.com	batch.cybersource.com
api.accountupdatertest.cybersource.com	api.accountupdater.cybersource.com
ics2wstest.ic3.com	ics2ws.ic3.com
ics2wstesta.ic3.com	ics2wsa.ic3.com
apitest.cybersource.com	ics2ws.in.ic3.com
	api.in.cybersource.com
	batch.in.cybersource.com

The new certificates can be found in the zip file at [this link](#).



Important

We strongly urge you to test your implementation as soon as possible.

Second Phase

The second phase will update the following endpoints:

Test URLs	Production URLs
testflex.cybersource.com	flex.cybersource.com
testsecureacceptance.cybersource.com	secureacceptance.cybersource.com
	flex.in.cybersource.com
	secureacceptance.in.cybersource.com

The Testing Environment was updated November 5, 2024, 4:00 GMT. The production environment December 10, 2024, 4:00 GMT. The old certifications will expire on December 31, 2024.

Features Introduced This Week

No customer-facing features were released this week.

Fixed Issues

No customer-facing fixes were released this week.

Known Issues

Decision Manager

Description

Users who do not have administrator permissions in the Business Center may be unable to see some negative list hyperlinks under Decision Manager > Case Management > Model Results, and in Transaction Management > Transaction > Transaction Details.

Audience

Merchants using Decision Manager to review orders.

Technical Details

None.

Workaround

None.

Merchant Boarding | 1614572

Description

Some users of the VAP Portfolio might be able to set up new gateways for existing merchant accounts, which can cause transaction failure.

Audience

Merchants who use the Business Center's Merchant Management feature to configure Merchant accounts using the Card Processing template.

Technical Details

If a user who does not have the Template Edit permission edits the card processing configuration of an existing Merchant ID by adding a new gateway, our internal gateway selector might not send transactions to the expected gateway.

Workaround

Ensure that the Template Edit permission is given to all users who configure merchant accounts in the Business Center.

API Response Codes | 1561217**Description**

A defect is causing transactions for pre-paid non-reloadable cards that are approved by Worldpay to be declined by our system due to invalid response code mapping.

Audience

Merchants who process transactions for pre-paid non-reloadable cards using Worldpay.

Technical Details

None.

Workaround

None.

Subscription Payments | 1573208**Description**

When a zero-amount authorization is included in a subscription creation request, the request results in failure for American Express, Discover, Diners, JCB, and CUP transactions.

Audience

Merchants processing on FDC Nashville and performing Token Creation calls without a Full Auth Amount.

Technical Details

This defect results in reason code 102: DINVALIDDATA with description \$0 auth not supported for [Card Scheme] on this gateway.

Workaround

- If you are tokenizing your customers before they place an order, create a token in conjunction with a \$1 Authorization then perform a full authorization reversal to remove the temporary funding block on your customer account.
- If you are tokenizing your customers at time of checkout, create a token in conjunction with the full amount of the customer's order.

Virtual Terminal | 1588256

Description	A defect is preventing Level III transactions in Virtual Terminal when Level II fields are set as required fields, even when all required fields are included.
Audience	Users of Virtual Terminal who perform Level III transactions.
Technical Details	The user receives the error message: Level2PurchaseOrderNumber is a required field.
Workaround	Use the API instead of Virtual Terminal.

Payments | 1560940

Description	A defect is causing payment transactions with an incorrect Card Verification Value (CVV) to receive a response code that claims the transaction can still be captured. However, capture fails.
Audience	Global.
Technical Details	The response code to the authorization says: RC 230: Soft decline. The authorization request was approved by the issuing bank but was flagged because it did not pass the Card Verification Number (CVN) check. You can capture the authorization, but consider reviewing the order for the possibility of fraud. The error message during capture failure says: Auth code is missing or invalid.
Workaround	None.

Payments | 1576231

Description	A defect is allowing authorizations to succeed when the purchase order number is sent in an incorrect format. These transactions fail during settlement.
Audience	Merchants in the US.
Technical Details	The API field names for the purchase order number field are:

REST API:

orderInformation.invoiceDetails.purchaseOrderNumber

Simple Order API: invoiceHeader_userPO

Workaround

Be sure to send API values using the correct format.

Fraud Management Essentials | 1525926

Description

Due to a defect, when an order that is pending review is viewed in the Transaction Details page in the Business Center, the Marking Tool feature is not available.

Audience

Users of Fraud Management Essentials.

Technical Details

None.

Workaround

Use the Fraud Management Essentials page to review orders until this defect is resolved.

Token Management System (TMS) | 1045848

Description

A defect is affecting TMS in the following scenario:

1. An existing customer token contains an existing payment instrument token that uses either credit card or bank account.
2. An additional payment instrument token is created for that customer token. The first payment instrument token was credit card and the new payment instrument token is bank account, or the old payment instrument token was bank account and the new payment instrument token is credit card.
3. The original payment instrument token is used in an existing autopay.
4. The new payment instrument token is set to default.

The result is that the payment request fails.

Audience

Users of TMS.

Technical Details

None.

Workaround

None.

Decision Manager | 1589720

Description	Merchants that review transactions in Decision Manager are experiencing intermittent timeout failures while searching for customer information in the Negative List.
Audience	Decision Manager users that review customer information in the Negative List.
Technical Details	None.
Workaround	Try selecting a date range to limit the number of results until the defect is fixed.

Payment REST API | 1561824

Description	The Payment REST API is sending HTTP response code 202 instead of 201 when the error reason is contact_processor.
Audience	Users of the Payment REST API.
Technical Details	The affected endpoint is pts/v2/payments.
Workaround	None.

Boarding and Virtual Terminal | 001548638

Description	Virtual Terminal is visible in the Business Center to merchant accounts onboarded to the VAP portfolio that are not enabled for Virtual Terminal.
Audience	Resellers on the VAP portfolio.
Technical Details	None.
Workaround	None.

Reporting | 1542583

Description	A defect is affecting the Transaction Request Report. For some requests that resulted in 102 errors, the Rmsg column is not populated.
Audience	Users of the Transaction Request Report.
Technical Details	None.
Workaround	None.