***HCL Commerce V9.1***

***CyberSource Integration Developer Guide***

**Draft - Version 1.0**

**August 12, 2021**



**Document Source**

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# **Introduction**

This document is about the integration of CyberSource Payment with HCL Commerce where Customer can place the order using CyberSource Payment.

# **About the Code**

Once you have approval to integrate the CyberSource Payment. HCL provide the Plugin\_Configuration folder. This folder contains following projects-

1. Dataload
2. HCLCyberSourcePaymentPlugin
3. Rest
4. WC
5. WebSphereCommerceServerExtensionsLogic

# **Prerequisites**

1. CyberSource Merchant ID.
2. Share Secret Key
3. Public Key

Follow the below URL to generate the key

<https://developer.cybersource.com/api/developer-guides/dita-gettingstarted/authentication/createSharedKey.html>

1. Update the CyberSource.sql file from \Dataload\sql\CyberSource.sql

* storeId
* langId
* cybersource\_merchant\_id
* cybersource\_api\_key
* cybersource\_secret\_key
* cyberSource\_api\_hostname

# **Integration Steps**

1. Run the Dataload

* Run acp policy file CyberSourceAccessControlPolicies.xml from \Dataload\acpload\ CyberSourceAccessControlPolicies.xml
* Run CyberSource.sql fiel from Dataload\sql\CyberSource.sql

1. Copy the jar file from WC/lib/cybersource-rest-client-java-0.0.34.jar file into your {HCL\_Commerce\_Workspace}\WC/lib folder.
2. Payment Plugin Configuration
   1. Copy HCLCyberSourcePaymentPlugin folder from WC/xml/config/payments/ppc/plugins to your {HCL\_Commerce\_Workspace}\WC/xml/config/payments/ppc/plugins folder.
   2. Copy ZCyberSourceOnlineConfiguration folder from WC/xml/config/payments/edp/groups/default/ZCyberSourceOnlineConfiguration to your {HCL\_Commerce\_Workspace}/WC/xml/config/payments/edp/groups/default/ folder.
   3. Merge the PaymentSystemPluginMapping.xml from WC/xml/config/payments/ppc/plugins/PaymentSystemPluginMapping.xml to your {HCL\_Commerce\_Workspace}/WC/xml/config/payments/ppc/plugins/PaymentSystemPluginMapping.xml. Below code need to merge-

|  |
| --- |
| <!-- CyberSource Start -->  <PaymentSystemName name=*"ZCyberSourceOnlineSystem"*>  <Mapping paymentConfigurationId=*"default"* pluginName=*"HCLCyberSourcePaymentPlugin"*>  <Keyword mask=*"\*"* name=*"account"* plain=*"-4"* searchable=*"true"*/>  <Keyword mask=*"-"* name=*"cc\_cvc"* plain=*"0"* removeAfterApproval=*"true"*/>  </Mapping>  </PaymentSystemName>  <!-- CyberSourceEnd --> |

* 1. Merge the PaymentMethodConfigurations.xml from WC/xml/config/payments/edp/groups/default/PaymentMethodConfigurations.xml to your {HCL\_Commerce\_Workspace}/WC/xml/config/payments/edp/groups/default/PaymentMethodConfigurations.xml. Below code need to merge-

|  |
| --- |
| <!-- CyberSource Start -->  <PaymentMethodConfiguration dependentCreditRequired=*"true"* humanEditable=*"true"*  maximumAmount=*"Unbounded"* minimumAmount=*"0"* name=*"ZCyberSourceOnlineConfiguration"*  partiallyConsumable=*"true"* paymentSystemName=*"ZCyberSourceOnlineSystem"* priority=*"HIGH"*  refundAllowed=*"true"* systemEditable=*"true"*/>  <!-- CyberSource End --> |

* 1. Merge the PaymentMappings.xml from WC/xml/config/payments/edp/groups/default/PaymentMappings.xml to your {HCL\_Commerce\_Workspace}/WC/xml/config/payments/edp/groups/default/PaymentMappings.xml. Below code need to merge-

|  |
| --- |
| <!-- CyberSource Start -->  <Mapping paymentActionRule=*"Early Approval"*  paymentConfiguration=*"ZCyberSourceOnlineConfiguration"* paymentMethod=*"CyberSource"*/>  <!-- CyberSource End --> |

1. Copy the WebSphereCommerceServerExtensionsLogic changes

Copy the below files/folder to your {HCL\_Commerce\_Workspace}/ WebSphereCommerceServerExtensionsLogic.

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| --- |
| 1. WebSphereCommerceServerExtensionsLogic/src/com/hcl/commerce/payments/cybersource/commands 2. WebSphereCommerceServerExtensionsLogic/src/com/hcl/commerce/payments/cybersource/handler |

1. Merge the Rest changes

Merge the resources-ext.properties from Plugin\_Configuration Rest/WebContent/WEB-INF/config/resources-ext.properties to your {HCL\_Commerce\_Workspace}/Rest/WebContent/WEB-INF/config/resources-ext.properties. Below code need to merge.

|  |
| --- |
| com.hcl.commerce.payments.cybersource.handler.HCLCyberSourceRestHandler |

1. Copy HCLCyberSourcePaymentPlugin to your {HCL\_Commerce\_Workspace}.

* Go to RAD
* Click on File > Import

Graphical user interface, text, application

Description automatically generated

* Select General > Existing Projects into Workspace and click on Next.

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* Select root directory click on Browse. Select the HCLCyberSourcePaymentPlugin. Project select the Checkbox and click Finish.

1. Dependency & Deployment
   1. Add HCLCyberSourcePaymentPlugin folder to WebSphereCommerceServerExtensionsLogic build path.

* Right click on the WebSphereCommerceServerExtensionsLogic.
* Select the Build Path > Configure Build Path.
* Click on Projects and Add the HCLCyberSourcePaymentPlugin folder.

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* 1. Deploy the HCLCyberSourcePaymentPlugin in local toolkit
* Open the RAD
* Select Enterprise Explorer
* Open WC > HCLCommerceServer
* application.xml file will open
* Click on Manage Utility Jars
* Ear Module Assembly > Click on Add
* Click on Add and Select Directive Type as Project.
* Click on Next, Select HCLCyberSourcePaymentPlugin and Finish.

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7.3 Restart WebSphere Commerce Server.