***HCL Commerce V9.1***

***Lunu Integration Developer Guide***

**Draft - Version 1.1**

**April 06, 2023**



**Document Source**

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| Version # | Date | Version Description and Summary of changes | Editor |
| 1.0 | August 17, 2021 | Draft- First version of review | Mahesh |

# **Introduction**

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

# **About the Code**

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

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

# **Prerequisites**

1. Merchant account
2. App Id.
3. App Secret
4. Update the Lunu.sql file from \Dataload\sql\LunuPayment.sql

* storeId
* langId
* lunu\_app\_id
* lunu\_app\_secret

# **Integration Steps**

1. Run the Dataload

* Run acp policy file LunuAccessControlPolicies.xml from \Dataload\acp\LunuAccessControlPolicies.xml
* Run LunuPayment.sql file from Dataload\sql\ LunuPayment.sql

1. Copy the jar file from WC/lib/JSON4J.jar file into your {HCL\_Commerce\_Workspace}\WC\lib folder.
2. Payment Plugin Configuration
   1. Copy LunuPaymentPlugin folder from WC/xml/config/payments/ppc/plugins to your {HCL\_Commerce\_Workspace}\WC/xml/config/payments/ppc/plugins folder.
   2. Copy LunuOnlineConfiguration folder from WC/xml/config/payments/edp/groups/default/ LunuOnlineConfiguration 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-

|  |
| --- |
| <!-- Lunu START -->  <PaymentSystemName name=*"LunuOnlineSystem"*>  <Mapping paymentConfigurationId=*"default"* pluginName=*"LunuPaymentPlugin"* />  </PaymentSystemName>  <!-- Lunu END --> |

* 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-

|  |
| --- |
| <!-- Lunu START -->  <PaymentMethodConfiguration dependentCreditRequired=*"true"* humanEditable=*"true"* maximumAmount=*"Unbounded"* minimumAmount=*"0"* name=*"LunuOnlineConfiguration"*  partiallyConsumable=*"true"* paymentSystemName=*"LunuOnlineSystem"* priority=*"HIGH"*  refundAllowed=*"true"* systemEditable=*"true"*/>  <!-- Lunu 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-

|  |
| --- |
| <!-- Lunu START -->  <Mapping paymentActionRule=*"Early Approval"*  paymentConfiguration=*"LunuOnlineConfiguration"* paymentMethod=*"Lunu"*/>  <!-- Lunu 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/lunu/payment/commands 2. WebSphereCommerceServerExtensionsLogic/src/com/hcl/commerce/lunu/payment/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.lunu.payment.handler.HCLLunuPaymentHandler |

1. Copy LunuPaymentPlugin 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.

Graphical user interface, text, application, email

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

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

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

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* 1. Deploy the LunuPaymentPlugin 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 LunuPaymentPlugin and Finish.

Graphical user interface, text, application

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7.3 Restart WebSphere Commerce Server.

The below configuration changes required if you are using v9 version

7.4 Add the LunuPayment ejb in wcbd-build-ts-definition.properties file in wc-build docker. This configuration is used for deploying the ejb projects

ejb.module.list=WebSphereCommerceServerExtensionsData,LunuPaymentPlugin