Tealium Oracle eCommerce Module Developer's Manual

Version 1.0.1

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Legal notes

- Tealium iQ is registered trademark of Tealium, Inc
- Oracle e-Commerce, previously know as Oracle ATG is registered trade mark or Oracle Corporation
- Oracle Java is registered trademark of Oracle Corporation

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Introduction

The ATG Tealium module is designed to help you integrate your Oracle ATG e-Commerce solution within Tealium tag management. Using this module you are able to put Tealium Data Layer and JavaScript tag on your JSP pages without writing you own solution from scratch.

Who should read this document

This document is for developers who need to integrate an Oracle ATG web site with Tealium Tag Management. Please note that you should be familiar with ATG e-Commerce product core and eCommerce functionality. If you are not familiar with Oracle ATG please read the ATG Platform Developer guide and ATG Commerce Developer Guide documents provided with your ATG distribution package.

Compatibility notes

ATG Tealium module is compatible with Oracle ATG 9 up to Oracle e-Commerce 11 including all minor releases.

Installation Instructions

Tealium module is distributed as packed file in deflate ZIP format or tar.bz2 format. In order to install module, unpack content of **atg-tealium-module.zip** of atg-**tealium-module.tar.bz2** into ATG installation directory, (should point to DYNAMO_ROOT environment variable). API documentation in javadoc format and this document provided separately.

Github: https://github.com/Tealium/oracle-commerce-tealium-extension

Please be aware that ATG is properly installed on you operating system and all environment variables are set. If not please follow ATG platform installation instructions, which is provided by Oracle Corporation.

For example:

- On Microsoft Windows open atg-tealium-module.zip in Explorer, copy Tealium folder and paste it into ATG installation directory i.e.
 %DYNAMO ROOT%
- On GNU/Linux you can use flowing command:

tar -xjf atg-tealium-module.tar.bz2 \${DYNAMO_ROOT}

Module Contents

The distribution package adds the flowing module folders into your ATG installation directory

Tealium\

Tealium\eCommerce\config

Tealium\eCommerce\config

Tealium\eCommerce\config\config.jar

Tealium\eCommerce\lib

Tealium\eCommerce\lib\classes.jar

Tealium\eCommerce\lib\commons-lang3-3.2.1.jar

Tealium\eCommerce\lib\guava-16.0.1.jar

Tealium\eCommerce\lib\tealium udo helper 1 2 0.jar

Tealium\eCommerce

Tealium\eCommerce\META-INF

Tealium\eCommerce\META-INF\MANIFEST.MF

Tealium\META-INF

Tealium\META-INF\MANIFEST.MF

Integration Guide

To be able to use Tealium ATG module with in your application, you will need to add a dependency to your application module. For example, if you'd like to add such functionality to the ATG Commerce Reference Store, then you need to edit

\${DYNAMO_ROOT}/CommerceReferenceStore/Store/Storefront/META-INF/MANIFEST.MF with adding Tealium.eCommerce dependency into ATG-Required section.

Alternatively you can add **Tealium.eCommerce** dependency into **runAssembly** arguments used for constructing ATG enterprise archive EAR.

Tealium ATG module uses ATG droplets for rendering Tealium JavaScript tags on your site. Just input appropriate droplets on JSP pages where you need the tag management. Please be aware that Tealium utag.sync.js script is required in the <head> HTML section, the rest of Tealium scripts must be rendered in the <body> HTML section. The utag.sync.js script is option and only required for synchronous tags. A typical setup will only have utag.js running asynchronously in the web page.

To configure your Tealium credentials you need to redefine the /tealium/config/TealiumConfiguration ATG component configuration some were in you configuration path.

It is strongly recommended to hold this configuration at live configuration. i.e. for development environment it is:

\${DYNAMO_HOME}/servers/<your server>/localconfig folder.

And for standalone retirements is your **ATG_DATA** directory.

Configuration options

Thallium configuration contains flowing settings:

- **enabled** boolean, allows enabling or completely disabling generation of all Tealium tags, optional value default is true.
- **tealiumCDN** a string value which points on Tealium URI, do not specify it until you don't need a special value, provided to you from Tealium iQ support
- accountName a string value represent your Tealium account name, required
- **profileName** a string value represent your Tealium profile name, required

- environmentName a string value represent your Tealium environment name, required
- **utagSyncEnabled** allows enabling or completely disabling generation of Tealium utag sync script, optional default is true
- **allowCustomUDO** allows generation of custom UDO options, reserved for the future uses, not required

Tealium droplets

Using Tealium droplets

To be able to render Tealium tags on your web shop front end, you need to insert Tealium droplet to the front end JSP files. Those droplets, will generate the JavaScript tags, which are required by Tealium tag management back-end system. You can put those droplets code to the man application header block JSP, or directly to the page block, depending of your application. In case of Oracle eCommerce CRS 11, you can use the **%DYNAMO_ROOT %\CommerceReferenceStore\Store\Storefront\j2ee-apps\Storefront\store.war\includes\pageStart.jsp** file for this purpose.

Tealium droplets specification follows

/tealium/droplet/UtagSyncDroplet

Renders the Tealium utag.sync.js tag into the page. Please be aware that this droplet must be used in <head> HTML section.

Example

```
<%-- Serve the <u>Tealium</u> eCommerce <u>utag.sync.js</u> script --%> 
<dsp:droplet name="/tealium/droplet/UtagSyncDroplet"> 
</dsp:droplet>
```

Generates flowing script:

```
<script type='text/javascript'
src='//tags.tiqcdn.com/utag/account/profile/environment/utag.sync.js'>
</script>
```

/tealium/droplet/GenericPageDroplet

Generates Tealium script for the generic (unknown) page type

Parameters

Generic page droplet requires flowing parameters from page.

- pageName string, name of the page, required
- language string current site locale, required
- **currency** string, current site currency, required

Example

Generates flowing tags

```
<script type='text/javascript'>
    var utag_data =
{
        "site_currency":"USD",
        "site_region":"en",
        "page_type":"generic",
        "page_name":"testPage"
}
</script>
<script type='text/javascript'>
        (function(a,b,c,d){
        a='//tags.tiqcdn.com/utag/account/profile/environment//utag.js';
        b=document;c='script';d=b.createElement(c);d.src=a;d.type='text/java'+c;d.async=true;
        a=b.getElementsByTagName(c)[0];a.parentNode.insertBefore(d,a);
        })();
</script>
```

/tealium/droplet/HomePageDroplet

Generates Tealium script for the home page type

Parameters

- pageName string, name of the page, required
- language string current site locale, required

• **currency** – string, current site currency, required

Example

Generates flowing tags

```
<script type='text/javascript'>
    var utag_data =
{
        "site_currency":"USD",
        "site_region":"en_US",
        "page_type":"home",
        "page_name":"Home Page"
}
</script>
<script type='text/javascript'>
        (function(a,b,c,d){
        a='//tags.tiqcdn.com/utag/account/profile/environment/utag.js';
        b=document;c='script';d=b.createElement(c);d.src=a;d.type='text/java'+c;d.async=true;
        a=b.getElementsByTagName(c)[0];a.parentNode.insertBefore(d,a);
        })();
</script>
```

/tealium/droplet/CustomerDetailDroplet

Generates Tealium tags for the account page type

Parameters

- pageName string, name of the page, required
- **language** string current site locale, required
- **currency** string, current site currency, required
- **profile** atg.userprofiling.Profile, required

Example

```
<script type='text/javascript'>
      var utag data =
{
      "site currency":"USD",
      "customer_email":"test@example.com",
      "customer_name":"Test",
      "site region":"en_US",
      "gender":"male",
      "page name":"myAccountPage",
      "customer type":""
      "customer id":"tstUsr"
}
</script>
<script type='text/javascript'>
      (function(a,b,c,d){
      a='//tags.tiqcdn.com/utag/account/profile/environment//utag.js';
      b=document;c='script';d=b.createElement(c);d.src=a;d.type='text/java'+c;d.async=true;
      a=b.getElementsByTagName(c)[0];a.parentNode.insertBefore(d,a);
      })();
</script>
```

/tealium/droplet/ProductDetailDroplet

Generates Tealium tags for the product details page

Parameters

- pageName string, name of the page, required
- **language** string current site locale, required
- **currency** string, current site currency, required
- product atg.repository.RepositoryItem representing the ATG catalog product, required

Example

Generates flowing tags

```
<script type='text/javascript'>
       var utag data =
{
       "page_category_name":"",
       "page subcategory name":"",
       "product id":["TP0"],
       "product name":["Test1Product"],
       "site region":"en US",
       "page_section name":"",
       "product unit_price":["10.0"],
       "product_category":["Test0"],
       "site currency":"USD",
       "product sku":["TSKU0"],
       "product brand":["TestBrand0"],
       "page_type":"product",
"page_name":"Test Product",
       "product list price":["10.0"]
}
</script>
<script type='text/javascript'>
       (function(a,b,c,d){
       a='//tags.tiqcdn.com/utag/account/profile/environment/utag.js';
       b=document;c='script';d=b.createElement(c);d.src=a;d.type='text/java'+c;d.async=true;
       a=b.getElementsByTagName(c)[0];a.parentNode.insertBefore(d,a);
       })();
</script>
```

/tealium/droplet/CategoryPageDroplet

Generates Tealium tags for the browse category content page

Parameters

- pageName string, name of the page, required
- language string current site locale, required
- **currency** string, current site currency, required
- category atg.repository.RepositoryItem representing the ATG catalog category, required

Example

```
</dsp:oparam> </dsp:droplet>
```

Generates flowing tags

```
<script type='text/javascript'>
      var utag data =
{
      "page category name":"TestCat0",
      "page subcategory name":"",
      "site_currency":"ÚSD",
      "site region":"en_US",
      "page type":"product",
      "page_section_name":"",
      "page name": "Category Page"
</script>
<script type='text/javascript'>
      (function(a,b,c,d){
      a='//tags.tigcdn.com/utag/account/profile/environment/utag.js';
      b=document;c='script';d=b.createElement(c);d.src=a;d.type='text/java'+c;d.async=true;
      a=b.getElementsByTagName(c)[0];a.parentNode.insertBefore(d,a);
      })();
</script>
```

/tealium/droplet/ShoppingCartDroplet

Generates Tealium tags for the basket page

Parameters

- pageName string, name of the page, required
- language string current site locale, required
- **currency** string, current site currency, required
- **shoppingCart** atg.commerce.order.OrderHolder ATG shopping cart component, required

Example

```
<script type='text/javascript'>
      var utag data =
{
       "product category":["TestCat","TestCat"],
       "product id":["TP0","TP0"],
      "product_unit_price":["100.0","200.0"],
       "product sku":["TSKU0","TSKU1"],
       "site currency":"USD",
       "product name":["TestSKU0","TestSKU1"],
       "product quantity":["1","2"],
       "product_brand":["TestBrand","TestBrand"],
       "site region":"en",
       "cart total":"560.0",
       "page type":"checkout",
       "page_name":"ShopingCard",
       "product list price":["100.0","400.0"]
</script>
<script type='text/javascript'>
      (function(a,b,c,d){
      a='//tags.tigcdn.com/utag/account/profile/environment/utag.js';
      b=document;c='script';d=b.createElement(c);d.src=a;d.type='text/java'+c;d.async=true;
      a=b.getElementsByTagName(c)[0];a.parentNode.insertBefore(d,a);
      })();
</script>
```

/tealium/droplet/OrderConfirmationDroplet

Generates Tealium tags for the order confirmation page

Parameters

- pageName string, name of the page, required
- language string current site locale, required
- **currency** string, current site currency, required
- order atg.commerce.order.Order, ATG order bean, required
- **userEmail** string, customer email, optional

Example

```
<script type='text/javascript'>
      var utag data =
{
       "order total": "560.0",
       "order_currency":"USD",
"order_shipping":"10.0",
       "product id":["TP0","TP0"],
       "order payment type":"Debit card",
       "product name":["TestSKU0","TestSKU1"],
       "product_quantity":["1","2"],
       "customer email":"test@example.com",
       "site region":"en",
       "order id":"TSTORD1",
       "order_subtotal":"610.0",
       "order_tax":"100.0",
       "product category":["TestCat","TestCat"],
       "product unit price":["100.0","200.0"],
       "product sku":["TSKU0","TSKU1"],
       "site currency":"USD",
       "product_brand":["TestBrand","TestBrand"],
       "page type":"checkout",
       "page name":"Order Confirmation",
       "product_list_price":["100.0","400.0"],
       "order discount":"100.0",
       "product discount":["0.0","50.0"],
       "customer id":"testuser"
}
</script>
<script type='text/javascript'>
       (function(a,b,c,d){
      a='//tags.tiqcdn.com/utag/account/profile/environment/utag.js';
      b=document;c='script';d=b.createElement(c);d.src=a;d.type='text/java'+c;d.async=true;
      a=b.getElementsByTagName(c)[0];a.parentNode.insertBefore(d,a);
      })();
</script>
```

/tealium/droplet/SearchResultsDroplet

Generates Tealium tags for the search results page

Parameters

- pageName string, name of the page, required
- language string current site locale, required
- **currency** string, current site currency, required
- **searchKeyWord** string, keyword used for searching
- **totalResultsNumber** string, with digital value total number of search results

Example

```
<script type='text/javascript'>
      var utag data =
{
       "site currency":"USD",
      "site region":"en",
      "page type":"search",
      "page_name":"Search Results",
       "search results":"2",
       "search keyword":"test"
</script>
<script type='text/javascript'>
      (function(a,b,c,d){
      a='//tags.tigcdn.com/utag/account/profile/environment/utag.js';
      b=document;c='script';d=b.createElement(c);d.src=a;d.type='text/java'+c;d.async=true;
      a=b.getElementsByTagName(c)[0];a.parentNode.insertBefore(d,a);
      })();
</script>
```

Extending Tealium tags generation

If you need to extend the Tealium scripts generation, according your application specific, for example in case when your have customized catalog structure you can follow next instruction.

The Tealium droplets not generates scripts them self. Generation is getting proxy to the /tealium/connector/DataConverter component.

If you need to change some Tealium script, you should extend com.tealium.connector.DataConverter class, and fulfill the com.tealium.util.udohelpers.UDO class, and then call getTealiumHelper().outputFullHtml

Then redefine the /tealium/connector/DataConverter with new class, as any any another ATG component.

For example if I what to generate the default site currency and default site language instead of transferring it from JSP page each time, I need to write next code.

```
package com.tealium.connector;
import com.tealium.util.udohelpers.TealiumHelper;
import com.tealium.util.udohelpers.TealiumHelper.PrebuiltUDOPageTypes;
import com.tealium.util.udohelpers.UDO;
public class MyTealiumDataConverter extends DataConverter {
      private String defaultCurrency;
      private String defaultLanguage;
      @Override
      public String getGenericPageScript(String pageName, String currency,
                                           String language) {
             if (getConfiguration().isEnabled()) {
                    try {
                           UDO udo = setupUDO(PrebuiltUDOPageTypes. HOME, pageName,
                                              getDefaultCurrency(), getDefaultLanguage());
                           udo.setValue(
                                TealiumHelper.HomePageUDO.PredefinedUDOFields.PAGE TYPE,
                                "generic");
                           return getTealiumHelper().outputFullHtml(udo);
                    } catch (Exception exc) {
                           return getExceptionString(exc);
             } else {
                    return "";
       }
      public String getDefaultCurrency() {
             return defaultCurrency;
      public void setDefaultCurrency(String defaultCurrency) {
             this.defaultCurrency = defaultCurrency;
      public String getDefaultLanguage() {
             return defaultLanguage;
      public void setDefaultLanguage(String defaultLanguage) {
             this.defaultLanguage = defaultLanguage;
And bean configuration property file property will looks like this:
# /tealium/connector/DataConverter
$class=com.tealium.connector.MyTealiumDataConverter
defaultCurrency=USD
defaultLanguage=en US
```