



ATIONet .NET SDK Reference

About: This document describes and explains how to consume the .NET SDK for all Ationet APIs.

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Introduction

The ATIONet SDK (Software development Kit) helps any developer that wants to interact with ATIONet Platform. If you are integrating an existing software or want to extract data out of ATIONet, the SDK will make this much easier, taking care of all the HTTP communication, error handling and retry policies.

ATIONet SDK can be consumed from any .NET language.

Download / Installation

ATIONet SDK is hosted in www.nuget.org. NuGet is the package manager for the Microsoft development platform including .NET. The NuGet client tools provide the ability to produce and consume packages. The NuGet Gallery is the central package repository used by all package authors and consumers.

Operation Types

ATIONet SDK is able to handle most of the ATIONet modules (Operation Types). This operations are very specific to the responsibility they have in the platform, like for example *Authorization*, *FMS (Fuel Management Systems)*, *Loyalty*, etc. Each of

this Operation Type, has a corresponding module in the SDK. the complete list of *Operations Types* are listed below.

Auth

The Auth Operation Type is the one in charge of interacting with the authorization engine. The authorization engine is the component that receives authorizations requests and decides if the transaction is approved or not. This SDK Operation Type should be use if you are building a POS or a terminal that will be sending authorization requests to ATIONet.

FMS

The FMS Operation Type is the one in charge of interacting with the FMS module. ATIONet supports receiving *Inventory* and *Deliveries* transactions through this interface.

Interface

The Interface Operation Type was design to be used by 3rd party software that need to get information from ATIONet. With this Operation Type you can download transactions (fleet, loyalty, retail, rejected, approved and exceptions), current account movements, current account balances and loyalty current account.

Loyalty

The Loyalty Operation Type is the one in charge of interacting with the Loyalty module. Using this Operation Type you will be able to send Loyalty transactions to ATIONet among other features.

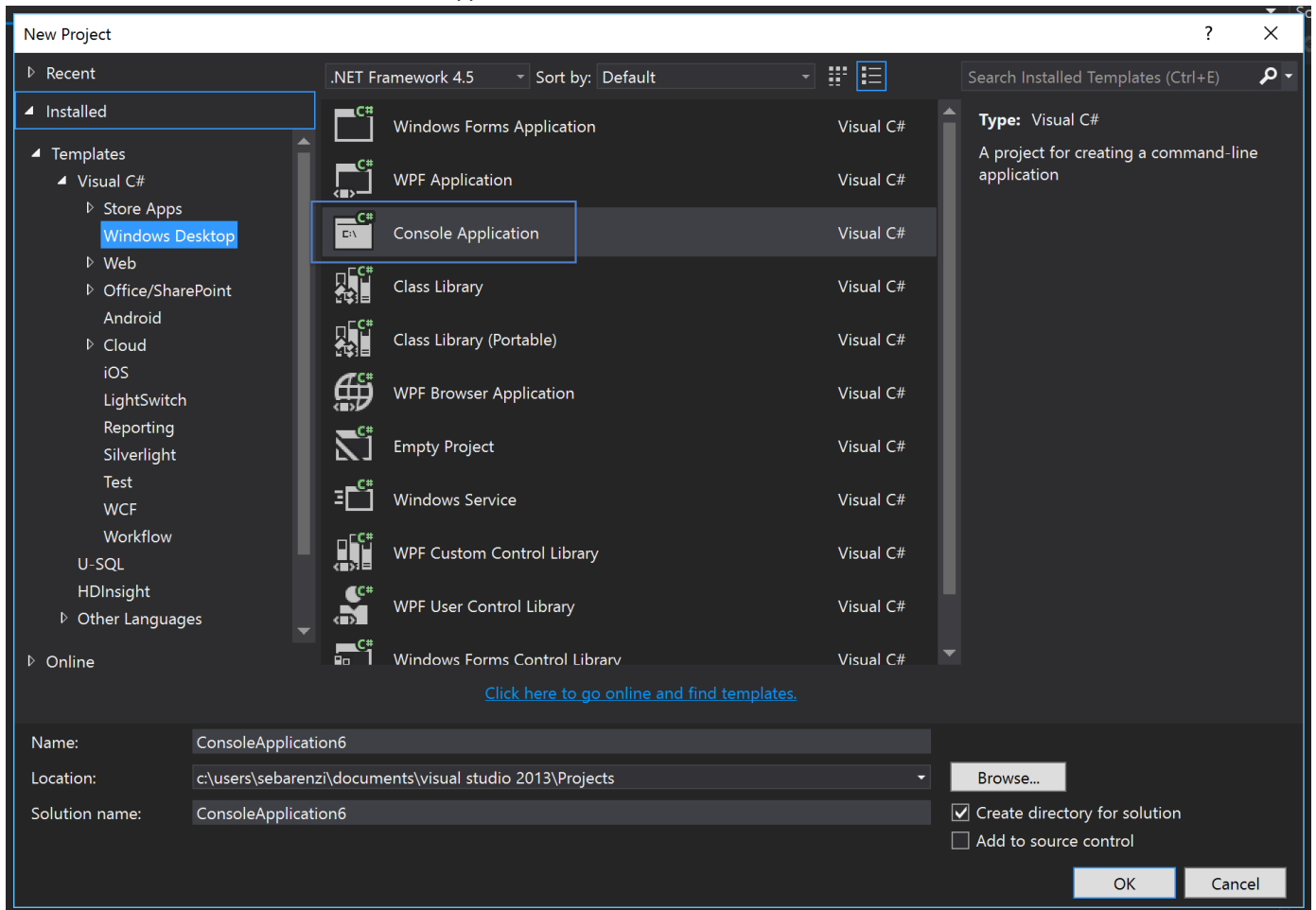
Retail

The Retail Operation Type is the one in charge of interacting with the Retail module. Using this Operation Type you will be able to send Retail information (transactions, batch closes, etc) to ATIONet among other features.

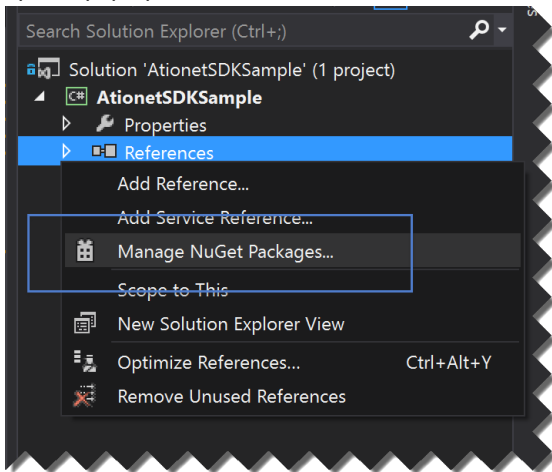
Consuming the SDK

For this example we will use Visual Studio 2013 and we will create a Console Application.

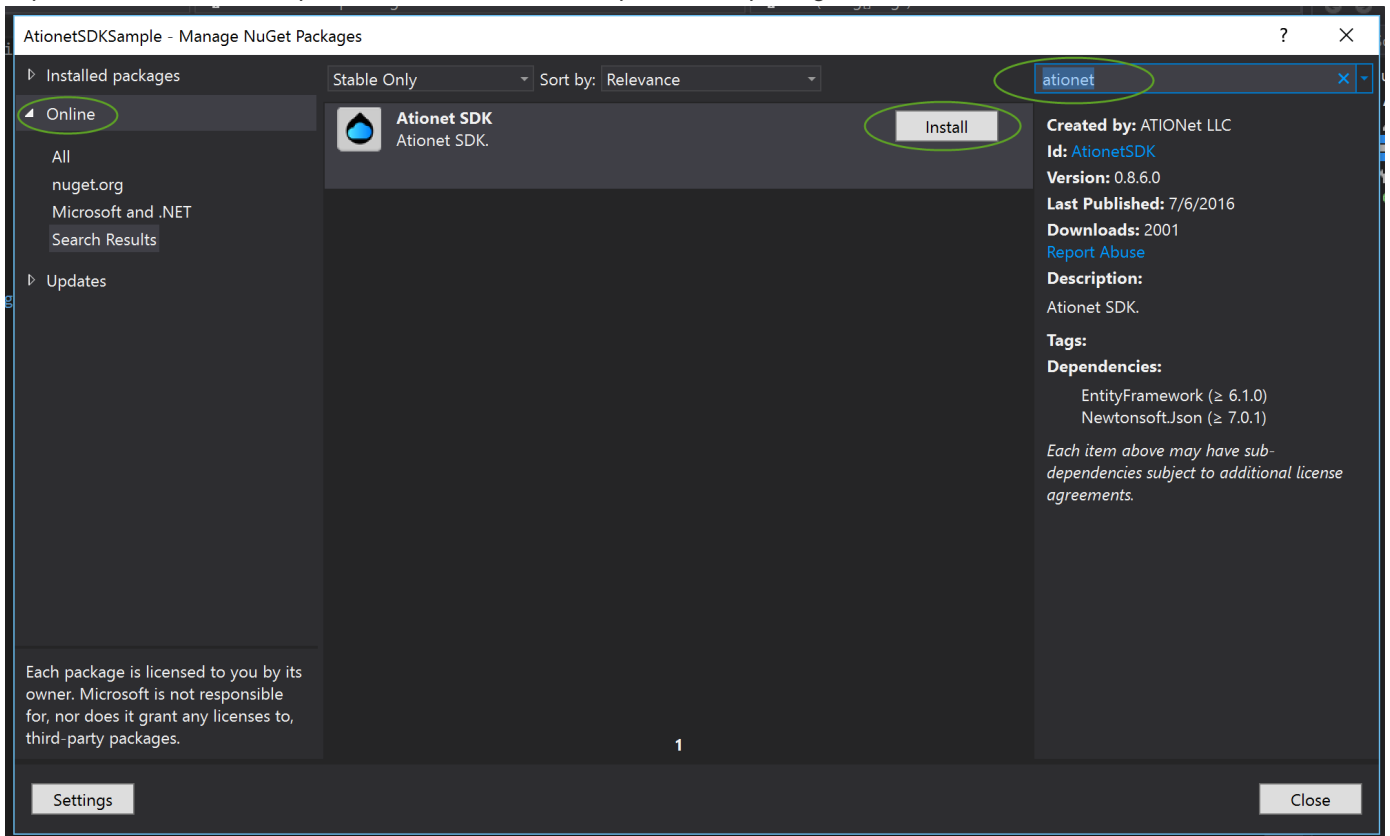
1. Inside Visual Studio create a new Console Application



2. Once the project is created, open the *Solution Explorer*, right click the project and select *Manage NuGet Packages*. This will open a pop up.



3. Inside the NuGet pop up, in the left part select *Online*, then in the right top corner type *ationet*. This will bring the list of packages found with this criteria. In this case only 1, **Ationet SDK**. Click *Install*, this will install the Ationet SDK packages and dependencies. Please accept terms and conditions for dependencies packages.



4. In the sample below you will see how to download transactions. Open the Program.cs and type the following code:

```
var client = new Ationet.Sdk.Interface.InterfaceOperations("https://native.ationet.com/",
    "[YOUR-USERNAME]", "[YOUR-PASSWORD]");
var transactions = client.GetTransactions("XYZ", "", "", DateTime.Now.AddDays(-1));

foreach (var tran in transactions.Content)
{
    Console.WriteLine("{0} - {1} - {2}", tran.AuthorizationCode, tran.TerminalCode, tran.ProductAmountDispensed);
}
```

First, you need an instance of the *InterfaceOperations* class. The constructor of this class requires 3 parameters, the url, username and password.

Once you have an instance of the *InterfaceOperations* class you can start calling the different methods. Find below the list of all the methods by *Operation Type*:

Operation Types methods

Each Operation Type class has multiple methods to perform specific operation against ATIONet. Each of this methods has a set of parameters, some of them to determine behaviour and others to filter data.

Auth Methods

Method	Parameters	Description
SendConfirmation		Sends a <i>Confirmation</i> message to the host (learn more about transactions flow here:
SendConfirmationAsync		Async version of the previous method
SendPreAuthorization		Sends a <i>Pre Authorization</i> message to the host (learn more about transactions flow here:
SendPreAuthorizationAsync		Async version of the previous method
SendSale		Sends a <i>Sale</i> message to the host (learn more about transactions flow here:
SendSaleAsync		Async version of the previous method

FMS Methods

Method	Parameters	Description
UploadNativeDeliveries		loren ipsum
UploadNativeDelivery		loren ipsum
UploadNativeInventories		loren ipsum
UploadNativeInventory		loren ipsum

Interface Methods

Method	Parameters	Description
BalanceTransferContractToSubAccount		Transfers money from the contract to a sub account
BalanceTransferSubAccountToContract		Transfers money from the sub account to the contract
BalanceTransferSubAccountToSubAccount		Transfers money between sub accounts
BalanceTransferToContract		Transfers (deposit) money to a contract
BalanceTransferToSubAccount		Transfers (deposit) money to a sub account
BalanceWithdrawFromContract		Removes (Withdraw) money from a contract
BalanceWithdrawFromSubAccount		This method removes (Withdraw) money from a sub account
ContractBalanceDownload		This method downloads a contracts balances list
GetDeliveries		This method downloads a deliveries list
GetExceptions		This method downloads a transaction exceptions list
GetInventories		This method downloads an inventories list
GetMovements		This method downloads current account movements
GetRetailBatchCloses		This method downloads retail batch closes
GetRetailTransactions		This method downloads retail transactions
GetStatements		This method downloads the statements
GetTransactions		This method downloads fleet transactions
GetUncontrolledTransactions		This method downloads uncontrolled transactions
InsertFastTrackOrder		This method inserts fast tracks (trip orders)
SubAccountBalanceDownload		This method downloads the balance of the sub accounts

Loyalty Methods

Method	Parameters	Description
SendLoyaltyAccumulation		loren ipsum
SendLoyaltyAccumulationAsync		loren ipsum
SendLoyaltyBalanceInquiry		loren ipsum
SendLoyaltyBalanceInquiryAsync		loren ipsum

Retail Methods

Method	Parameters	Description
SendRetailBatchClose		loren ipsum
SendRetailBatchCloseAsync		loren ipsum
SendSaleRecordsUpload		loren ipsum
SendSaleRecordsUploadAsync		loren ipsum