



ATIONet Native Interface API Protocol Specification

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Change Log		
Ver.	Date	Change Summary
1.0	04/Jan/2013	Initial version. General information Actions: Statement Charges (partial) Transactions Download
1.1	07/Jan/2013	Statement Charges - Added Action 902 Negative Balance transfer to a sub-account New group of actions: 941 – 950 Account Inquiries (partial) Actions: 941 Sub-account Balance Enquiry 942 Sub-account Limit Enquiry Transactions Downloads - Consolidated Classification Fields for Vehicles and Drivers - Reorganized Response record, moved Classification fields after Driver Fields.

1.2	30/10/2013	<p>Account Inquiries</p> <ul style="list-style-type: none"> - Added Action 943 Contract Balance Enquiry <p>New group of actions: 951 – 959 Account Download (partial)</p> <p>Actions: 951 Sub-Account Movements Download</p> <p>952 Contract Movements Download</p>
1.3	05/07/2014	<p>Statement Charges</p> <ul style="list-style-type: none"> - Added Action 903 Transfer balance from sub-account to a sub-account - Added Action 904 Transfer balance from contract to a sub-account - Added Action 905 Transfer balance from sub-account to a contract - Change and reorganize request and response records <p>Transactions Downloads</p> <ul style="list-style-type: none"> - Change and reorganize request and response records <p>Account Inquiries</p> <ul style="list-style-type: none"> - Remove Action 943 Contract Balance Enquiry - Change and reorganize request and response records <p>Account Downloads</p> <ul style="list-style-type: none"> - Remove Action 952 Contract Movements Download - Change Action 951 Sub-Account Movements Download to 951 Movements Download - Change and reorganize request and response records <p>Error Handling</p> <ul style="list-style-type: none"> - Include “ResponseError” in response record for actions intended to post a command

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Overview

Introduction

This specification is intended to document ATIONet's Native Interface API messaging format and related features required for the systems applying for integration with ATIONet.

The Interface API allows the The following sections provide descriptions of the messages themselves, the expected behaviour for each supported

action type and a common ground for the functionality of each relevant item.

Definitions

Subscriber.

ATIONet's subscription owner. The person or company who runs the service.

Homebase.

A type of ATIONet subscription where the subscriber owns the site(s) but also the fleet(s) of vehicles.

Network.

A type of ATIONet subscription where the subscriber enrolls Fleet Companies and retail or commercial sites to operate with its own method-of-payment. The Network company doesn't own the site(s) or the vehicles.

Retail.

A type of ATIONet subscription where the subscriber owns the sites and enrolls Fleet Companies to operate with its own method-of-payment.

Merchant.

On a Network type subscription, the Merchant is the company who own the sites.

Company.

On a Network or Retail type subscription, the Company is the company who own the fleet.

Terminal.

Transaction capture device at the site.

1 Scope

Version 1.3 of this document covers a particular version of ATIONet’s Host protocol. Although feature’s descriptions are generally not related to a particular version of the protocol, some changes may apply which would be specifically commented and identified on each feature’s description paragraph.

1.1 Scope details

Protocol: ATIONet Native Interface API

Version: Version 1.3

API URI: native.ationet.com/v1/interface

2 System Interface API

The Interface API provide system-to-system access to certain features of ATIONet otherwise only available via the ATIONet Console, and it’s intended to allow direct interaction of third-party systems on Subscribers, Merchants and fleet Companies with ATIONet.

Availability of part or all the functionality of the Interface API is subject to the business type and contract terms of the ATIONet subscriber.

2.1 Interface API Messages

Name	Protocol Ver.		Description
	Initial	Change	
Statement charges [HTTP POST] 901 to 920	1.0		Commands ATIONet to process a movement on the account of a driver or vehicle, given an action type indicated on the message body. Availability of this message and the type of actions allowed depend on the subscriber type and its contracting terms. 901 - Balance transfer to a sub-account
	1.1		902 - Balance withdrawal from a sub account

	1.1		902 - Balance withdrawal from a sub-account
		1.3	901 - Balance transfer to a sub-account 902 - Balance withdrawal from a sub-account 903 - Transfer balance from sub-account to a sub-account 904 - Transfer balance from contract to a sub-account 905 - Transfer balance from sub-account to a contract
Transactions Download [HTTP POST] 931 to 940	1.0		Returns a list of completed transactions from ATIONet host, between two dates, for a given Subscriber, Merchant or fleet Company 931 - Transactions Download 932 - Transactions Download for Merchants
		1.1	931 - Transactions Download 932 - Transactions Download for Merchants
		1.3	931 - Transactions Download 932 - Transactions Download for Merchants
Account Enquiries [HTTP POST] 941 to 950	1.1		Returns specific values of a Contract or Sub-account. 941 - Sub-account Balance Enquiry 942 - Sub Account Limit Enquiry

			942 - Sub-Account Limit Enquiry
	1.2		943 - Contract Balance Enquiry
		1.3	941 - Sub-account Balance Enquiry 942 - Sub-Account Limit Enquiry 943 - Contract Balance Enquiry
Account Downloads [HTTP POST] 951 to 960	1.2		951 - Sub-Account Movements Download 952 - Contract Movements Download
		1.3	951 - Movements Download 951 - Sub-Account Movements Download 952 - Contract Movements Download

3 Data security

The Interface API requires an SSL connection between both parties. The SSL connection is established for each request/response pair, using a certificate property of ATIONet, meaning that each request must include a system-type user and password on the Header. The user will be matched against the related ATIONet actor for each message. (for example: when a Transactions Download request is received, the Interface will first check whether the company of the authenticated user matches with the Company code in the request).

Users to be used on the Interface API messaging will be created by authorized users via ATIONet Console, with the role "Interface API".

At this time there is no provisioning to distribute or update certificates or thumbprint thru a system interface. This information

will be provided at request of the Subscriber.

4 Message Structure

All Interface API messages share the same structure, what change from message to message are the Action Code, which indicates the actual interface function, the value fields sent and received, and the HTTP action (POST, GET, REQUEST) which changes depending on the Action Code.

Both, requests and responses use a JSON format.

Only one request is accepted on each message, although some requests and many responses will contain multiple records.

Request Format

Header:

Accept-Encoding: gzip

Authorization: Basic user:password

Body:

```
{"ActionCode": "nnn", "FieldName": "StringValue", "FieldName": Value}
```

Response

Header:

Content-Type: application/json; charset=utf-8

Body:

```
[{"Fieldname": "StringValue", "FieldName": "StringValue", "FieldName": Value}, {"Fieldname": "StringValue", "FieldName": "StringValue", "FieldName": Value}]
```

Note: Some Action Codes returns a single response row, for example the Statement charges.

Note: Alphanumeric fields, stated as Type "A/N" in record format tables below show the maximum possible length as the Size, although in JSON-formatted strings they will be represented with trailing spaces

trimmed.

5 Error handling

Success/failure exits on the Interface API will be handled via HTTP status codes.

Successful request will get a HTTP 200 and the resulting response.

Actions intended to return data, for example the Transactions Downloads group may return many records, just a single record or even no records at all and even though will be considered successful if the requests met the validation criteria. These Actions will always return a JSON-formatted list of records, enclosed in curly brackets “[...]”. An empty response will contain [] as body.

Actions intended to post a command, for example the Statement Charges group will return a single JSON-formatted item with the “ResponseCode”, “ResponseMessage” and “ResponseError” fields. The body of these responses will never be empty.

Failure to process the request will be indicated by an HTTP 400's range status code. The body will contain a single JSON-formatted item with the “ResponseCode”, “ResponseMessage” and “ResponseError” fields.

6 Statement Charges Interface

The Statement Charge message sends an instruction to ATIONet to apply a well-defined action on the current account subsystem, the subject of the action will be a sub-account of a contract, lets say a Vehicle or a Driver account.

Depending on the type of charge, this message might be used by one or the other party of the contract (the subscriber or the fleet company).

6.1 Action Codes

The Action Code specifies the type of accounting transactions requested by a Statement Charge Message. The submitted code must match one of the pre-defined operation types. Not all operation types are available for all subscribers and/or fleet companies, availability depends on subscription types but also on contract terms with ATIONet.

Action Code	Description	
901	Title:	Balance transfer to a sub-account
	Function:	<p>Transfers a given value from the global balance of the Contract to the sub-account related to the Vehicle or Driver.</p> <p>Contract Balance must have enough funds (or product volume) to allow the transfer; otherwise the action will be rejected by the current accounts subsystem.</p>
	Observations	The action will first trigger a Deposit action on the Contract and the Contract to sub-account transfer.
902	Title:	Balance withdrawal from a sub-account
	Function:	<p>Withdraws a given value from the sub-account related to the Vehicle or Driver.</p> <p>Sub-account Balance must have enough funds (or product volume) to allow the withdrawal; otherwise the action will be rejected by the current accounts subsystem.</p>
903	Title:	Balance transfer from sub-account to sub-account
	Function:	<p>Transfers a given value from the original sub-account (related to the Original Vehicle or Driver) to the sub-account related to the Vehicle or Driver.</p> <p>Original sub-account balance must have enough funds (or product volume) to allow the transfer; otherwise the action will be rejected by the current accounts subsystem.</p>

904	Title:	Balance transfer from contract to sub-account
	Function:	<p>Transfers a given value from the contract to the sub-account related to the Vehicle or Driver.</p> <p>Contract balance must have enough funds (or product volume) to allow the transfer; otherwise the action will be rejected by the current accounts subsystem.</p>
905	Title:	Balance transfer from sub-account to contract
	Function:	<p>Transfers a given value from the sub-account related to the Vehicle or Driver to the contract.</p> <p>Sub-account Balance must have enough funds (or product volume) to allow the withdrawal; otherwise the action will be rejected by the current accounts subsystem.</p>

6.2 Identification

When a Statement Charge is received, ATIONet will try to identify the Subscriber, the Species (Currency Code or Master Fuel Code) and the Identifier of the sub-account (Vehicle or Driver), this can be performed thru several combinations of the Identification Fields on the body of the message:

1. Any Identifier field (Identifier, Driver Code, Vehicle Code, Vehicle Plate, SubAccount External Code and SubAccount Id) only. Only accepted for Home-base subscriptions.
2. Company Code + Identifier.
3. Company Code + Contract Code + (Driver Code or Vehicle Code or Vehicle Plate)

6.3 Statement Charge (POST) – Body Section Record Format

Field Name	Size	Type	Condition	Descriptions/Field Value(s)

SubscriberCode	3	A/N	Required	Fixed. To be assigned by ATIONet
ActionCode	3	N	Required	Operation type code. See Action Code Section.
CompanyCode	30	A/N	Optional	See Identification section
ContractCode	20	A/N	Optional	See Identification section
DriverCode	50	A/N	Optional	See Identification section
VehicleCode	50	A/N	Optional	See Identification section
VehiclePlate	50	A/N	Optional	See Identification section
SubAccountExternalCode	50	A/N	Optional	See Identification section
SubAccountId	36	A/N	Optional	See Identification section
Identifier	50	A/N	Optional	Public ID of the

Identifier	50	A/N	Optional	Public ID of the identification device (chipkey ID, account number on a mag card, RFID serial number, etc.) See Identification section
DriverCodeOrigin	50	A/N	Optional	See Identification section
VehicleCodeOrigin	50	A/N	Optional	See Identification section
VehiclePlateOrigin	50	A/N	Optional	See Identification section
SubAccountExternalCodeOrigin	50	A/N	Optional	See Identification section
SubAccountIdOrigin	36	A/N	Optional	See Identification section
IdentifierOrigin	50	A/N	Optional	Public ID of the identification device (chipkey ID, account number on a mag card, RFID serial number, etc.) See Identification section

MasterFuelCode	50	A/N	Conditional	Required if Charge Volume is specified
CurrencyCode	50	A	Conditional	Required if Charge Amount is specified
Amount	10	N	Required	Charge Amount or Charge Volume
Description	1000	A/N	Optional	A description for the current account movement

7 Transactions Download Interface

The Transactions Download Interface are POST actions to recover all the payment transactions processed by ATIONet for a given Terminal, Contract Code or Company Code depending on the particular Action Code.

The Action Code is validated against the type of company of the authenticated user. Request not passing this validation will be rejected.

The download will be limited by dates (from and to), which must be included in the request

7.1 Action Codes

The Action Code specifies the type of record transaction to be retrieved; this differentiation is based on the different roles on an ATIONet operation (Fleet Company, Merchant, Network, Home-base), which also mandates different ways to identify the requester and scope of transactions to download.

Action Code	Description	
931	Title:	Transactions Download
	Function:	Download complete transactions records
	Allowed for:	Subscribers and Fleet Companies
	Identification:	Subscriber Code Merchant Code (Optional, if included will act as a filter) Company Code (Optional, if included will act as a filter) Terminal Code(Optional, if included will act as a filter) Contract Code (Optional, if included will act as a filter)
932	Title:	Transactions Download for Merchants
	Function:	Download transactions records (fueling details subset)
	Allowed for:	Merchants on a three-layer subscription model
	Identification:	Subscriber Code Merchant Code Terminal Code (Optional, if included will act as a filter)

7.2 Transactions Download (POST) – Body Section Format *Request*

Field Name	Size	Type	Condition	Descriptions/Field Value(s)
SubscriberCode	3	A/N	Required	Fixed. To be assigned by ATIONet
ActionCode	3	N	Required	See Action Codes section above
MerchantCode	30	A/N	Conditional	See Action Codes section above

CompanyCode	30	A/N	Conditional	See Action Codes section above
ContractCode	20	A/N	Optional	See Action Codes section above
TerminalCode	50	A/N	Optional	See Action Codes section above
DateFrom	19	A/N	Required	From date to filter transactions “yyyy/MM/dd hh:mm:ss”
DateTo	19	A/N	Optional	To date to filter transactions “yyyy/MM/dd hh:mm:ss”

Field Name	Size	Type	Condition	Descriptions/Field Value(s)
SubscriberCode	3	A/N	Required	Fixed. To be assigned by ATIONet
ActionCode	3	N	Required	See Action Codes section above
MerchantCode	30	A/N	Conditional	See Action Codes section above
CompanyCode	30	A/N	Conditional	See Action Codes section above
ContractCode	20	A/N	Optional	See Action Codes section above

TerminalCode	50	A/N	Optional	See Action Codes section above
DateFrom	19	A/N	Required	From date to filter transactions “yyyy/MM/dd hh:mm:ss”
DateTo	19	A/N	Optional	To date to filter transactions “yyyy/MM/dd hh:mm:ss”

7.3 Transactions Download (POST) – Body Section Format *Response*

Field Name	Size	Type	Descriptions/Field Value(s)
TransactionID	36	A/N	Transaction’s UID
SubscriberCode	3	A/N	Code of the subscriber who owns the transaction
TransactionSequenceNumber	50	A/N	Transaction ID as received from the site’s controller system. Usually a transaction counter. Site-based, might repeat from site to site.
AuthorizationCode	50	A/N	Authorization Code

ResponseCode	5	A/N	Host response code sent to the terminal
ResponseMessage	50	A/N	Host response text sent to the terminal
Status	1	N	2- "Completed", 3- "Confirmed"
StatusDescription	50	A/N	<p>"Completed" or "Confirmed"</p> <p>A transaction is Completed when the completion message sent from the site's terminal is processed and approved by ATIONet, meaning that the sale or delivery transaction was successfully performed at the site.</p> <p>A transaction is Confirmed when the site's terminal receives an acknowledge message of the successful processing of completion message from ATIONet.</p> <p>Thus, Confirmed or Completed transactions are considered valid records of a successful transaction at the site. But, a transaction that is only Completed (not confirmed) might indicate that the site's terminal is not aware of ATIONet status. Depending on the site's system, this could lead to differences between site's and ATIONet sales totals.</p>
HostDateTime	19	A/N	ATIONet's transaction datetime "yyyy/mm/dd hh:mm:ss".

			ATIONet Host date time is UCT
SubscriberDateTime	19	A/N	Subscriber transaction datetime “yyyy/mm/dd hh:mm:ss”. Subscriber date time is Subscriber TimeZone
SubscriberTimeZone	50	A/N	TimeZone code of the subscriber (abbreviation)
SiteDateTime	19	A/N	Site transaction datetime “yyyy/mm/dd hh:mm:ss”. Site date time is Site TimeZone
SiteTimeZone	50	A/N	TimeZone code of the site (abbreviation)
DateTime	19	A/N	Site’s transaction date “yyyy/mm/dd hh:mm:ss”.
MerchantCode	30	A/N	Code of the company who owns the site N/A to Homebase subscribers
MerchantName	250	A/N	Name of the company who owns the site N/A to Homebase subscriber

SiteCode	50	A/N	Site Code
SiteName	100	A/N	Name of the Site
TerminalCode	50	A/N	<p>Site's Terminal identification code.</p> <p>A Terminal is the device or system that captures the transaction at the site, depending on the controller (system) type at the site, it may be the actual terminal (for example the specific OPT) or the whole system (several OPTs served by a single controller).</p>
SubAccountId	36	A/N	SubAccount's UID
SubAccountExternalCode	50	A/N	SubAccount's external code
AccountTypeDescription	10	A/N	<p>"Driver" or "Vehicle"</p> <p>This field indicates whether the sub-account charged with the transaction is a Vehicle or a Driver.</p> <p>NOTE: The rest of the fields related to Vehicle or Driver in the transaction will be populated or not depending on this value and should be evaluated accordingly.</p>
VehicleCode	50	A/N	Vehicle Code
DriverCode	50	A/N	Driver Code

ProductAmountRequested	10	N	<p>Amount (money) requested on a single-product pre-authorization.</p> <p>xxxxxxx.xx</p> <p>NOTE: ATIONet Native Transaction Protocol allows for one product to be included directly on the message body. More products could be included in the Product Data structure, therefore “Product” figures might be different (lesser) than “Transaction” figures, which always represents total values. On most situations (just one fueling per transaction, without dry products), “Product” and “Transaction” value-fields would have the same values.</p>
ProductVolumeRequested	10	N	Volume requested on a single-product pre-authorization. xxxxxxxx.xx
ProductVolumeAuthorized	10	N	Volume authorized. xxxxxxxx.xx
ProductAmountAuthorized	10	N	Amount authorized. xxxxxxxx.xx
ProductVolumeDispensed	10	N	Actual fueling volume (adjusted by the completion message). xxxxxxxx.xx
ProductAmountDispensed	10	N	Actual fueling amount (adjusted by the completion message). xxxxxxxx.xx

ProductUnitPrice	10	N	PUP on a single-product transaction. xxx.xxx
TransactionAmountRequested	10	N	Transaction amount requested on the pre-authorization. xxxxxxxx.xx
TransactionAmountAuthorized	10	N	Transaction amount authorized. xxxxxxxx.xx
TransactionAmountDispensed	10	N	Actual amount fueled. xxxxxxxx.xx
MeasurementUnitCode	50	A/N	Unit of measuring for the volume fields, according to site's configuration.
CurrencyCode	50	A/N	Currency of the amount fields, according to site's configuration
FuelCode	50	N	Site's product code
FuelMasterCode	50	A/N	Standardized product code. Helps to identify a fuel product category across multiple Merchant brands and site's product codes
FuelMasterDescription	100	A/N	Standardized product description. Helps to identify a fuel product category across multiple Merchant brands and site's product codes

InvoiceNumber	50	A/N	Number assigned by the Terminal to the document issued for the transaction. May be empty.
BatchNumber	11	N	Batch Identification. Informed by the site's controller. Persisted on ATIONet for information purposes only. May be empty
ShiftNumber	50	A/N	Shift (or Date+Shift) Identification. Informed by the site's controller. Persisted on ATIONet for information purposes only. May be empty
PumpNumer	2	N	Fueling position number. Informed by the terminal.
EntryMethod	1	N	1 = Manual Entry 2 = Magnetic Card Swipe 3 = Smart Card 4 = AVI
CompanyCode	30	A/N	Company code Not meaningful for Homebase subscribers
CompanyName	250	A/N	Company name Not meaningful for Homebase subscribers

ClassificationLabel1	200	A/N	<p>Classifications</p> <p>ATIONet allows for up to four user-defined classification field for Vehicles or Drivers.</p>
ClassificationLabel2	200	A/N	
ClassificationLabel3	200	A/N	
ClassificationLabel4	200	A/N	
ContractCode	20	A/N	<p>Contract code</p> <p>Not meaningful for Homebase subscribers</p>
SubContractCode	50	A/N	<p>SubContract code</p> <p>Not meaningful for Homebase subscribers</p>
PrimaryIdentificationLabel	50	A/N	Public ID of the primary identification device (chipkey ID, account number on a mag card, RFID serial number, etc.)
SecondaryIdentificationLabel	50	A/N	Public ID of the secondary identification device (chipkey ID, account number on a mag card, RFID serial number, etc.)

FleetCode	50	A/N	Fleet Code
FleetName	50	A/N	Fleet Name
VehiclePlate	50	A/N	Licence plate
VehicleClassDescription	50	A/N	Vehicle Class
VehicleClassificationValue1	50	A/N	
VehicleClassificationValue2	50	A/N	
VehicleClassificationValue3	50	A/N	
VehicleClassificationValue4	50	A/N	
DriverName	100	A/N	Name of Driver
DriverLicenceState	50	A/N	Driver licence jurisdiction
DriverLicenceNumber	50	A/N	Driver licence
DriverID	50	N	DriverID prompt result
DriverClassificationValue1	50	A/N	

DriverClassificationValue2	50	A/N	
DriverClassificationValue3	50	A/N	
DriverClassificationValue4	50	A/N	
EngineHours	10	N	Engine hours prompt result
Odometer	10	N	Odometer prompt result
LastOdometer	10	N	Previous odometer value
LastEngineHours	10	N	Previous engine hours value
TrailerHourMeterReading	10	N	Trailer hours prompt result
TruckUnitNumber	50	A/N	Truck Unit ID prompt result
TrailerNumber	50	A/N	Trailer ID prompt result
TripNumber	50	A/N	Trip/Guide/Route prompt result
PurchaseOrderNumber	50	A/N	PO prompt result

8 Account Enquiries

The Account Enquiries messages retrieve data from ATIONet, specific to a Contract or Sub-Account (Vehicle or Driver types).

Depending on the type of enquiry, this message might be used by one or the other party of the contract (the subscriber or the fleet company).

8.1 Action Codes

The Action Code specifies the type of enquiry requested. The submitted code must match one of the pre-defined operation types. Not all operation types are available for all subscribers and/or fleet companies; availability depends on subscription types but also on contract terms with ATIONet.

Action Code	Description	
941	Title:	Sub-account Balance Enquiry
	Function:	<p>Retrieves the total Balance for a given Sub-Account (Vehicle or Driver). Works with product or money based current accounts. On a product account, it returns the volume balance and the master product code. May return up to two product-volume pair when the vehicle is a dual-product unit.</p> <p>This message only retrieves information from ATIONet's Current Account subsystem, without considering any other business rule that may apply to the Site, Vehicle and/or Driver, which may potentially impact on the amount or limit that would be authorized at transaction time.</p>

8.2 Identification

When an Account Enquiry is received, ATIONet will try to identify the Company and the Identifier of the sub-account (Vehicle or Driver), this can be performed thru several combinations of the Identification Fields on the body of the message:

1. Any Identifier field (Identifier, Driver Code, Vehicle Code, Vehicle Plate, SubAccount External Code and SubAccount Id) only. Only accepted for Home-base subscriptions.
2. Company Code + Identifier.

3. Company Code + Contract Code + (Driver Code or Vehicle Code or Vehicle Plate)

8.3 Account Enquiry (POST) – Body Section Record Format *Request*

Field Name	Size	Type	Condition	Descriptions/Field Value(s)
SubscriberCode	3	A/N	Required	Fixed. To be assigned by ATIONet
ActionCode	3	N	Required	Operation type code. See Action Code Section.
CompanyCode	30	A/N	Optional	See Identification section
ContractCode	20	A/N	Optional	See Identification section
DriverCode	50	A/N	Optional	See Identification section
VehicleCode	50	A/N	Optional	See Identification section
VehiclePlate	50	A/N	Optional	See Identification section
SubAccountExternalCode	50	A/N	Optional	See Identification section
SubAccountId	36	A/N	Optional	See Identification section
Identifier	50	A/N	Optional	Public ID of the identification device (chipkey ID, account number on a mag card, RFID serial number, etc.) See Identification section

8.4 Account Enquiry (POST) – Body Section Record Format *Response*

Field Name	Size	Type	Descriptions/Field Value(s)
SubscriberCode	3	A/N	Fixed. To be assigned by ATIONet
CompanyCode	30	A/N	Company identification. Should be ignored on Homebase subscribers.
CompanyName	250	A/N	Company name. Should be ignored on Homebase subscribers.
ContractCode	20	A/N	Contract identification. Should be ignored on Homebase subscribers.
SubContractCode	50	A/N	SubContract code Not meaningful for Homebase subscribers
SubAccountId	36	A/N	SubAccount's UID
SubAccountExternalCode	50	A/N	SubAccount's external code
DriverCode	50	A/N	See Identification section
VehicleCode	50	A/N	See Identification section
VehiclePlate	50	A/N	See Identification section

Identifier	250	A/N	Identifications related to subaccount
FuelMasterCode	50	A/N	Standardized product code. Helps to identify a fuel product category across multiple Merchant brands and site's product codes
FuelMasterDescription	100	A/N	Standardized product description. Helps to identify a fuel product category across multiple Merchant brands and site's product codes
CurrencyCode	50	A	Currency configured for the Contract
Amount	10	N	Amount balance for the sub-account. xxxxxxx.xx

9 Account Downloads

The Account Download messages are POST actions to recover all the current accounts movements processed by ATIONet for a given Company Code depending on the particular Action Code.

The Action Code is validated against the type of company of the authenticated user. Request not passing this validation will be rejected.

The download will be limited by dates (from and to), which must be included in the request

9.1 Action Codes

The Action Code specifies the type of record transaction to be retrieved; this differentiation is based on the different roles on an ATIONet operation (Fleet Company, Merchant, Network, Home-base), which

also mandates different ways to identify the requester and scope of transactions to download.

Action Code	Description	
951	Title:	Movements Download
	Function:	Download complete current account movements records
	Allowed for:	Subscribers and Fleet Companies
	Identification:	Subscriber Code Company Code (Optional, if included will act as a filter)

9.2 Account Download (POST) – Body Section Format *Request*

Field Name	Size	Type	Condition	Descriptions/Field Value(s)
SubscriberCode	3	A/N	Required	Fixed. To be assigned by ATIONet
ActionCode	3	N	Required	See Action Codes section above
CompanyCode	30	A/N	Conditional	See Action Codes section above
DateFrom	19	A/N	Required	From date to filter movements “yyyy/MM/dd hh:mm:ss”
DateTo	19	A/N	Optional	To date to filter movements “yyyy/MM/dd hh:mm:ss”

9.3 Account Download (POST) – Body Section Format *Response*

Field Name	Size	Type	Descriptions/Field Value(s)
Id	36	A/N	Current account's UID
MovementId	36	A/N	Movements's UID
SubscriberCode	3	A/N	Code of the subscriber who owns the transaction
HostDateTime	19	A/N	ATIONet's transaction date time “yyyy/mm/dd hh:mm:ss”. ATIONet Host date time is UCT

DateTime	19	A/N	movement date expressed in subscriber time zone “yyyy/mm/dd hh:mm:ss”.
SubscriberTimeZone	50	A/N	TimeZone code of the subscriber (abbreviation)
Type	1	N	Internal ATIONet movement type code
TypeDescription	50	A/N	Movement type description
Origin	1	N	Internal ATIONet code for the origin of the movement
OriginDescription	50	A/N	Description for the origin of the movement
Description	1000	A/N	Movement description
SubAccountId	36	A/N	SubAccount’s UID
SubAccountExternalCode	50	A/N	SubAccount’s external code
CompanyCode	30	A/N	Company code Not meaningful for Homebase subscribers

CompanyName	250	A/N	Company name Not meaningful for Homebase subscribers
ContractCode	20	A/N	Contract code Not meaningful for Homebase subscribers
SubContractCode	50	A/N	SubContract code Not meaningful for Homebase subscribers
IsDebit	1	N	Indicates that's a debit or credit movement 1 = "True", 2= "False"
FuelMasterCode	50	A/N	Standardized product code. Helps to identify a fuel product category across multiple Merchant brands and site's product codes
FuelMasterDescription	100	A/N	Standardized product description. Helps to identify a fuel product category across multiple Merchant brands and site's product codes
CurrencyCode	50	A/N	Currency of the amount fields
Amount	10	N	Amount balance for the sub-account. xxxxxxx.xx

10 Examples

10.1 C# example

```
``C#
using System.IO;
using System.IO.Compression;
using System.Net;
using System.Text;

using Newtonsoft.Json;

```C#
// Create Json object
object requestObject = new { ActionCode = "941", SubscriberCode = "{YourSubscriberCode}", Identifier = "{YourIdentifier}" };

// Serialize Json object
string request = JsonConvert.SerializeObject(requestObject);

// Get total bytes to send
int length = Encoding.ASCII.GetByteCount(request);

WebRequest webRequest = WebRequest.Create("https://native.ationet.com/v1/interface");

// Set gzip encoding (optional), user and password in the headers
webRequest.Headers = new WebHeaderCollection { "Accept-Encoding: gzip", "Authorization: Basic {User}:{Password}" };
webRequest.Method = "POST";
webRequest.ContentLength = length;

// Send request
using (Stream requestStream = webRequest.GetRequestStream())
{
 requestStream.Write(Encoding.ASCII.GetBytes(request), 0, length);
 requestStream.Close();
}

// Receive and analyze response
using (WebResponse webResponse = webRequest.GetResponse())
{
 using (Stream stream = webResponse.GetResponseStream())
```



```

 {
 if (((HttpWebResponse)webResponse).StatusCode == HttpStatusCode.OK &&
stream != null)
 {
 // Handle response
 StreamReader reader = webResponse.Headers["Content-Encoding"]

 == "gzip"

 ? new StreamReader(new GZipStream(stream, CompressionMode.D
ecompress))

 : new StreamReader(stream);

 // Read response
 string response = reader.ReadToEnd();
 }
 else
 {
 // Handle error
 }
 }
}

```