



Consumer KYC Service

Bank Account Holder Check (Realtime)

ConsumerKYC RESTful Web Service Integration Guide

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1. Change Control

Version	Date	Status	Change Description
0.1	27/09/2017	Draft Created	Draft document created
1.0	12/03/2018	Created	Signed off version
2.0	11/12/2018	Updated	KYC_200 error description changed from "Input Request Malformed" changed to "Malformed data or escape sequences use like /n /t /r"
2.1	13/12/2018	Updated	Subscriber Code return field set to Optional.
2.2	21/06/2019	Updated	Added the "Want Email" field and removed two non-existing error codes (KYC_102/103).
2.3	09/07/2019	Updated	Added the Additional Datasets <ul style="list-style-type: none"> IDV Service Deeds Directors Judgements Notices

2. Definitions

Term	Definition
Json	JavaScript Object Notation
XML	Extensible markup language
KYC	Know Your Customer
API	Application Programming Interface
HANIS	Home Affairs National Identification System
NPR	National Population Register
WrkStn	3rd Party internal "authentication", if it is not included from their side or if there is an issue with the Workstation ID, this will produce an error relating to WrkStn/WrkStnID
DoHA	Department of Home Affairs
IDNR	Identity Number
IDV	Identity Verification Service (Real-Time)

3. Additional Documents

Document Name	Document Description
Fraud Categories Mapping	This document contains the complete breakdown of all fraud categories and subcategories linked to fraud category and fraud sub category numbers.

4. Introduction

This document serves as technical guide to allow 3rd parties to access PbVerify KYC Service by means of SOAP Service passed through a secure HTTPS tunnel. The aim of this document is to define the Soap services that will be required to exchanging data to and from PbVerify.

Note that this is not a free service and all transactions must be considered billable. To activate the service please contact PbVerify Integration for more information.

5. Service Overview

The Know Your Customer Service provides an efficient and fast way for a business to verify their customers. In addition to the verification check this service will also return contact information and a SAFPS fraud section. Note for the fraud section to return your branch must be activated to receive fraud information.

The service will return the following additional contact information based on the input request.

- Address Data
- Contact (Telephone) Data
- Employment Data

Kindly note the following.

- All mandatory input want tags will produce null values in the output if no data is found.
- All optional input want tags will produce empty results in the output if no data is found.

1. Any Optional Want search criteria tags will only be visible when asked for.
2. Any Optional Want stats tag's will only be visible when asked for.
3. Any Optional Want tag's return data block will only be visible if populated with data.

The KYC Service offers the following enquiry selections.

Data Element	Basic KYC Enquiry	Basic KYC Enquiry (With IDV Real-Time)	Standard KYC Enquiry	Standard KYC Enquiry (With IDV Real-Time)	Full KYC Enquiry (Only available with IDV Real-Time)	Notes
ID Verification (Standard Bureau)	YES		YES		-	Verifies if Identity number exists on the Bureau by default, no selection is required for the Standard Bureau Identity Number Verification.
Contact Number (5 _ No Source)	YES (optional)	YES (optional)			-	Up to 5 Contact numbers will be returned without sources
Contact Number (10 _ with Source)			YES (optional)	YES (optional)	YES	Up to 10 Contact numbers will be returned with most sources
Address (5 _ No Source)	YES (optional)	YES (optional)			-	Up to 5 Address numbers will be returned without sources
Address (10 _ with Source)			YES (optional)	YES (optional)	YES	Up to 10 Address numbers will be returned with most sources
Employer (5 _ No Source)	YES (optional)	YES (optional)			-	Up to 5 Employer numbers will be returned without sources
Employer (10 _ with Source)			YES (optional)	YES (optional)	YES	Up to 10 Employer numbers will be returned with most sources

6. Web Service

Connection details	URL
SOAP: UAT Server	
SOAP: Live Server	
REST: UAT Server	
REST: Live Server	

Methods exposed via the SOAP web service

Function	Field name	Type	Length	Required	Description/Example
RequestNewKYC	Request New KYC	-	-	-	Overall Request Root. XML Only
	Auth	-	-	-	Root for auth details.
	Username	Alphanumeric	30	Y	PbVerify username 1234-1
	Password	Alphanumeric	30	Y	PbVerify user password. devtest
	Version	Numeric	4	Y	Version of the input request. Current version = 1.0
	Origin	Alphanumeric	20	Y	Name of the originating application. SOAP_UI_TEST
PingServer	None	-	-		This function can be used to test if the service is up. - True result = Service is up - False result = Service is not up or cannot be reached.

Bureau Response	Response Status	Boolean			The parameter is used to indicate result of the request: - True = Successful - False = not completed/error
	Error Code	Alphanumeric	7		Error description. See error codes for more detail.
	Error Description	Alphanumeric	255		Error code. See error codes for more detail.
	Return Data	Alphanumeric	Variable		String containing request result. The result type is dependent on the ret_Format set via the input string.

7. Service Input

The below matrix defines the service input search criteria.

Field Name	Type	Length	Required	Description/Example
Search Criteria	-	-	-	Root for input details
Identity Number	Alphanumeric	13	Y	South African ID Number or passport on person being searched on. Note: Identity is dictated by the Identity type below.
Identity Type	Alphanumeric	8	Y	Identity Number type. Currently = SA ID Note: SA ID Validation will only apply .
Forename	Alphanumeric	35	N	Forename of person being searched on.
Surname	Alphanumeric	35	N	Surname of person being searched on.
Want Sources	Alphanumeric	1	N	Whether Source data must be returned, and will only for the following: <ul style="list-style-type: none"> • Addresses • Employment • Contact

Want Search Criteria	Alphanumeric	1	Y	Whether the client's search criteria must be echoed back or not. <ul style="list-style-type: none"> Y = Yes N = No
Want Addresses	Alphanumeric	1	Y	Whether Address data must be returned or not. <ul style="list-style-type: none"> Y = Yes N = No
Want Contact	Alphanumeric	1	Y	Whether Contact data must be returned or not. <ul style="list-style-type: none"> Y = Yes N = No
Want Employment	Alphanumeric	1	Y	Whether Employment data must be returned or not. <ul style="list-style-type: none"> Y = Yes N = No

7.1 Service Input Examples

7.1.1 Soap XML Input Example

XML Input Example

```
<BureauRequest>
  <Auth>
    <Username>xxxxxx</Username>
    <Password>xxxxxxx</Password>
    <Version>1.0</Version>
    <Origin>SOUP_UI</Origin>
  </Auth>
  <SearchCriteria>
    <IdentityNumber>7204155999189</IdentityNumber>
    <IdentityType>SID</IdentityType>
    <Forename>Koos</Forename>
    <Surname>Van Der Merwe</Surname>
    <!--Optional:-->
    <WantSources>Y</WantSources>
    <!--Optional:-->
    <WantPDF>Y</WantPDF>
    <!--Optional:-->
    <WantIDVService>Y</WantIDVService>
    <WantSearchCriteria>Y</WantSearchCriteria>
    <WantAddresses>Y</WantAddresses>
    <WantEmployment>Y</WantEmployment>
    <WantContact>Y</WantContact>
    <WantSafps>Y</WantSafps>
    <!--Optional:-->
    <WantEmail>Y</WantEmail>
    <!--Optional:-->
    <WantDeeds>Y</WantDeeds>
    <!--Optional:-->
    <WantDirectors>Y</WantDirectors>
    <!--Optional:-->
    <WantJudgements>Y</WantJudgements>
    <!--Optional:-->
    <WantNotices>Y</WantNotices>
  </SearchCriteria>
</BureauRequest>
```

7.1.2 Rest JSON input Example

JSON Input Example

```
{
  "auth":{
    "username": "xxxxxx",
    "password": "xxxxxx",
    "version": "1.0",
    "origin": "SOAP_UI"
  },
  "search_criteria":{
    "identity_number":"7204155999189",
    "identity_type":"SID",
    "forename":"Koos",
    "surname":"Van Der Merwe",
    "want_sources":"Y",
    "want_pdf":"Y",
    "want_idv_service":"Y",
    "want_search_criteria":"Y",
    "want_addresses":"Y",
    "want_employment":"Y",
    "want_contact":"Y",
    "want_safps":"Y",
    "want_email":"Y",
    "want_deeds":"Y",
    "want_directors":"Y",
    "want_judgements":"Y",
    "want_notices":"Y"
  }
}
```

8. Service Outputs

The below matrix defines the service output return data.

Field Name	Type	Length	Required	Description/Example
Response Status	Alphanumeric	7	Y	Either a Success or Failure
Error Code	Alphanumeric	7	N	Error code when transaction failed.
Error Description	Alphanumeric	255	N	Error message when transaction failed.
Return Data	-	-	N	Root Tag
Enquiry ID	Numeric	10	Y	Unique Enquiry ID for reference.
Date Created	Alphanumeric	23	Y	Date the enquiry was created Format: ccyy-mm-dd hh:mm:ss:SSS
Search Criteria Data Block	-	-	N	Search Criteria Echo Root Tag
Identity Number	Alphanumeric	13	Y	South African ID Number
Identity Type	Alphanumeric	8	Y	Identity Number type. SAID
Forename	Alphanumeric	35	N	Forename of person being searched on.
Surname	Alphanumeric	35	N	Surname of person being searched on.
Want Sources	Alphanumeric	1	N	Whether Source data must be returned <ul style="list-style-type: none"> • Y = Yes • N = No
Want Search Criteria	Alphanumeric	1	Y	Whether the client's search criteria must be echoed back. <ul style="list-style-type: none"> • Y = Yes • N = No
Want Addresses	Alphanumeric	1	Y	Whether Address data must be returned. <ul style="list-style-type: none"> • Y = Yes • N = No
Want Contact	Alphanumeric	1	Y	Whether Contact data must be returned.

				<ul style="list-style-type: none"> Y = Yes N = No
Person Found	Alphanumeric	1	Y	Whether the person was found or not. <ul style="list-style-type: none"> Y = Yes N = No
IDV Person Found	Alphanumeric	1	Y	Whether the person was found or not on IDV <ul style="list-style-type: none"> Y = Yes N = No *Only Profile ID Data (Offline Data) Available)
Address Count	Numeric	2	N	Summary of Addresses linked to consumer.
Employment Count	Numeric	2	N	Summary of Employers linked to consumer.
Contact Count	Numeric	2	N	Summary of Contact records linked to consumer.

Identity Number	Numeric	13	Y	South African ID Number or Passport matched on the Bureau
Identity Type	Alphanumeric	8	Y	Identity Number Type SA ID
Forename 1	Alphanumeric	35	Y	First name of person
Forename 2	Alphanumeric	35	N	Second name of person
Forename 3	Alphanumeric	35	N	Third name of person
Surname	Alphanumeric	35	Y	Surname of person
Date of Birth	Alphanumeric	10	Y	Date the person was born. Format: ccyy-mm-dd
Verified	Alphanumeric	1	Y	Whether the person identity number is verified or not. <ul style="list-style-type: none"> Y = Yes N = No
Date Verified	Alphanumeric	10	N	Date the last time the identity number was verified. Format: ccyy-mm-dd
Deceased	Alphanumeric	1	N	Whether the person is deceased or not. <ul style="list-style-type: none"> Y = Yes N = No
Deceased Date	Alphanumeric	10	N	Date the person was deceased Format: ccyy-mm-dd
Error	Numeric	5	N	See list of returned errors
Address Data	-	-	N	Address Root Tag Containing List
Address Data Record	-	-	XML Only	Address Tag for Each Element
Line 1	Alphanumeric	100	Y	Address line 1
Line 2	Alphanumeric	100	N	Address line 2
Line 3	Alphanumeric	100	N	Address line 3
Line 4	Alphanumeric	100	N	Address line 4
Postal Code	Alphanumeric	5	N	Postal code of set address
Address Type	Alphanumeric	1	Y	Address Types:

				Code	Description	
				R	Residential	
				W	Work	
				P	Postal	
				O	Other	
Address Type Description	Alphanumeric	15	Y	Description of address mapped to code as per table above.		
First date created	Alphanumeric	10	Y	Date address was created on the system. Format: ccyy-mm-dd		
Last date updated	Alphanumeric	10	Y	Date the address was last updated on the system. Format: ccyy-mm-dd		
Number of sources	Numeric	2	Y	Number of data sources that supplied the address data		
Address Sources	-	-	-	Root Tag Containing List		
Address Source Record	-	-	XML Only	Address Sources Tag For Each Element		
Subscriber Code	Alphanumeric	8	N	Subscriber code linked to data supplier		
Subscriber Name	Alphanumeric	100	Y	Name of subscriber		
First Date Created	Alphanumeric	10	Y	Date the address was last created on the system by the data source. Format: ccyy-mm-dd		
Last Date Updated	Alphanumeric	10	Y	Date the address was last updated on the system by the data source. Format: ccyy-mm-dd		
Employment Data	-	-	N	Employment Root Tag Containing List		
Employment Data Record	-	-	XML Only	Employment Tag For Each Element		
Employer Name	Alphanumeric	100	Y	Name of the consumers employer.		
Occupation	Alphanumeric	50	N	Occupation of the consumer.		
First Date Created	Alphanumeric	10	Y	Date the employer was last created on the system.		

				Format: ccyy-mm-dd														
Last Date Created	Alphanumeric	10	Y	Date the employer was last updated on the system. Format: ccyy-mm-dd														
Number of Sources	Numeric	2	Y	Number of data sources that supplied the address data														
Employment Sources	-	-	-	Root Tag Containing List														
Employment Source Record	-	-	XML Only	Employment Tag For Each Element														
Subscriber Code	Alphanumeric	8	N	Subscriber code linked to data supplier														
Subscriber Name	Alphanumeric	100	Y	Name of subscriber														
First Date Created	Alphanumeric	10	Y	Date the employer was last created on the system by the data source. Format: ccyy-mm-dd														
Last Date Updated	Alphanumeric	10	Y	Date the employer was last updated on the system by the data source. Format: ccyy-mm-dd														
Contact Data	-	-	N	Contact Root Tag														
Contact Data Record	-	-	XML Only	Contact Tag For Each Element														
Contact Number	Numeric	20	Y	Consumer telephone number														
Area Code	Numeric	5	Y	Area code of telephone number														
Country Code	Numeric	5	Y	Country code of telephone number														
Contact Type	Alphanumeric	1	Y	<table><tr><th colspan="2">Type of telephone number</th></tr><tr><th>Code</th><th>Description</th></tr><tr><td>C</td><td>Cell</td></tr><tr><td>H</td><td>Home</td></tr><tr><td>W</td><td>Work</td></tr><tr><td>O</td><td>Other</td></tr></table>			Type of telephone number		Code	Description	C	Cell	H	Home	W	Work	O	Other
Type of telephone number																		
Code	Description																	
C	Cell																	
H	Home																	
W	Work																	
O	Other																	
Contact Type Description	Alphanumeric	5	Y	Description of contact type mapped to code as per table above.														
First Date Created	Alphanumeric	10	Y	Date the contact type was last created on the system by the data source.														

				Format: ccyy-mm-dd
Last Date Updated	Alphanumeric	10	Y	Date the contact type was last updated on the system by the data source. Format: ccyy-mm-dd
Number of Sources	Alphanumeric	2	Y	Number of data sources that supplied the address data
Contact Sources	-	-	-	Root tag
Contact Source Record	-	-	XML Only	Contact Tag for Each Element
Subscriber Code	Alphanumeric	8	N	Subscriber code linked to data supplier
Subscriber Name	Alphanumeric	100	Y	Name of subscriber
First Date Created	Alphanumeric	10	Y	Date the contact record was last created on the system by the data source. Format: ccyy-mm-dd
Last Date Updated	Alphanumeric	10	Y	Date the contact record was last created on the system by the data source. Format: ccyy-mm-dd

8.1 Service Output Examples

8.1.1 SOAP XML Output Example

Successful Result

XML Success Output Example HTTP 200

```
<BureauResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <ResponseStatus>Success</ResponseStatus>
  <ErrorCode xsi:nil="true"/>
  <ErrorDescription xsi:nil="true"/>
  <ReturnData>
    <EnquiryID>6246509255222578175</EnquiryID>
    <DateCreated>2019-07-10 14:44:12:865</DateCreated>
    <SearchCriteriaData>
      <IdentityNumber>7204155999189</IdentityNumber>
      <IdentityType>SID</IdentityType>
      <Forename>Koos</Forename>
      <Surname>Van Der Merwe</Surname>
      <WantSources>Y</WantSources>
      <WantPDF>Y</WantPDF>
      <WantIDVService>Y</WantIDVService>
      <WantSearchCriteria>Y</WantSearchCriteria>
      <WantAddresses>Y</WantAddresses>
      <WantContact>Y</WantContact>
      <WantEmployment>Y</WantEmployment>
      <WantSAFPS>Y</WantSAFPS>
      <WantEMAIL>Y</WantEMAIL>
      <WantDeeds>Y</WantDeeds>
      <WantDirectors>Y</WantDirectors>
      <WantJudgements>Y</WantJudgements>
      <WantNotices>Y</WantNotices>
    </SearchCriteriaData>
    <Stats>
      <PersonFound>N</PersonFound>
      <IDVPersonFound>N</IDVPersonFound>
      <AddressCount>2</AddressCount>
      <EmploymentCount>1</EmploymentCount>
      <ContactCount>2</ContactCount>
      <SafpsCount>1</SafpsCount>
      <EmailCount>1</EmailCount>
      <DeedsPropertyCount>2</DeedsPropertyCount>
      <DeedsPropDetailsCount>2</DeedsPropDetailsCount>
      <DeedsBondCount>2</DeedsBondCount>
      <DirectorCount>1</DirectorCount>
      <JudgementsCount>1</JudgementsCount>
      <NoticesCount>1</NoticesCount>
    </Stats>
  </ReturnData>
</BureauResponse>
```

```
</Stats>
<DefiniteMatchData xsi:nil="true"/>
<IDVData>
  <TransNo>1361f4c3-6b71-404d-ac5c-f6b1b4831e79</TransNo>
  <IdentityNumber>7204155999189</IdentityNumber>
  <Name xsi:nil="true"/>
  <Surname xsi:nil="true"/>
  <SmartCardIssued>false</SmartCardIssued>
  <DateOfIdIssued xsi:nil="true"/>
  <IdSeqNo xsi:nil="true"/>
  <Deceased>false</Deceased>
  <DateOfDeceased xsi:nil="true"/>
  <IdnBlocked>false</IdnBlocked>
  <MaritalStatus xsi:nil="true"/>
  <DateOfMarriage xsi:nil="true"/>
  <OnHanis>false</OnHanis>
  <OnNpr>false</OnNpr>
  <BirthPlaceCountryCode xsi:nil="true"/>
  <Error>800</Error>
</IDVData>
<AddressData>
  <AddressDataRecord>
    <Line1>6 BOESAK SINGEL</Line1>
    <Line2>LOWS</Line2>
    <Line3>BEAUFORT WEST</Line3>
    <Line4>Block 4</Line4>
    <PostalCode>6970</PostalCode>
    <AddressType>R</AddressType>
    <AddressTypeDescription>RESIDENTIAL</AddressTypeDescription>
    <FirstDateCreated>2013-12-31</FirstDateCreated>
    <LastDateUpdated>2018-12-31</LastDateUpdated>
    <NumberOfSources>1</NumberOfSources>
    <AddressSources>
      <AddressSourceRecord>
        <SubscriberCode>9</SubscriberCode>
        <SubscriberName>MTM BUSINESS ENTERPRISE CC</SubscriberName>
        <FirstDateCreated>2010-10-31</FirstDateCreated>
        <LastDateUpdated>2018-11-30</LastDateUpdated>
      </AddressSourceRecord>
    </AddressSources>
  </AddressDataRecord>
</AddressData>
```

```
</AddressDataRecord>
<AddressDataRecord>
  <Line1>5 MURRY STREET</Line1>
  <Line2>HIGHTS</Line2>
  <Line3>BEAUFORT WEST</Line3>
  <Line4>Block 3</Line4>
  <PostalCode>6970</PostalCode>
  <AddressType>R</AddressType>
  <AddressTypeDescription>RESIDENTIAL</AddressTypeDescription>
  <FirstDateCreated>2013-12-31</FirstDateCreated>
  <LastDateUpdated>2013-12-31</LastDateUpdated>
  <NumberOfSources>2</NumberOfSources>
  <AddressSources>
    <AddressSourceRecord>
      <SubscriberCode>8</SubscriberCode>
      <SubscriberName>ACKERMAN SWZ</SubscriberName>
      <FirstDateCreated>2010-10-31</FirstDateCreated>
      <LastDateUpdated>2018-12-31</LastDateUpdated>
    </AddressSourceRecord>
    <AddressSourceRecord>
      <SubscriberCode>7</SubscriberCode>
      <SubscriberName>ATLAS FINANCE</SubscriberName>
      <FirstDateCreated>2010-10-31</FirstDateCreated>
      <LastDateUpdated>2013-12-31</LastDateUpdated>
    </AddressSourceRecord>
  </AddressSources>
</AddressDataRecord>
</AddressData>
<EmploymentData>
  <EmploymentDataRecord>
    <EmpName>Mars</EmpName>
    <Occupation>Pretender</Occupation>
    <FirstDateCreated>2013-06-05</FirstDateCreated>
    <LastDateUpdated>2013-06-05</LastDateUpdated>
    <NumberOfSources>1</NumberOfSources>
    <EmploymentSources>
      <EmploymentSourceRecord>
        <SubscriberCode>1808</SubscriberCode>
        <SubscriberName>NEW WORLD CASH LOANS CC</SubscriberName>
        <FirstDateCreated>2012-04-08</FirstDateCreated>
        <LastDateUpdated>2013-03-31</LastDateUpdated>
      </EmploymentSourceRecord>
    </EmploymentSources>
  </EmploymentDataRecord>
```

```
</EmploymentData>
<ContactData>
  <ContactDataRecord>
    <ContactNumber>827287904</ContactNumber>
    <AreaCode>012</AreaCode>
    <CountryCode>27</CountryCode>
    <ContactType>C</ContactType>
    <ContactTypeDescription>CELL</ContactTypeDescription>
    <FirstDateCreated>2018-07-15</FirstDateCreated>
    <LastDateUpdated>2018-07-16</LastDateUpdated>
    <NumberOfSources>1</NumberOfSources>
    <ContactSources>
      <ContactSourceRecord>
        <SubscriberCode>239</SubscriberCode>
        <SubscriberName>NEW WORLD ORDER</SubscriberName>
        <FirstDateCreated>2018-07-15</FirstDateCreated>
        <LastDateUpdated>2018-07-16</LastDateUpdated>
      </ContactSourceRecord>
    </ContactSources>
  </ContactDataRecord>
  <ContactDataRecord>
    <ContactNumber>123191001</ContactNumber>
    <AreaCode>012</AreaCode>
    <CountryCode>27</CountryCode>
    <ContactType>W</ContactType>
    <ContactTypeDescription>WORK</ContactTypeDescription>
    <FirstDateCreated>2016-02-09</FirstDateCreated>
    <LastDateUpdated>2016-03-24</LastDateUpdated>
    <NumberOfSources>1</NumberOfSources>
    <ContactSources>
      <ContactSourceRecord>
        <SubscriberCode>1345</SubscriberCode>
        <SubscriberName>THE UNLIMITED WORLD</SubscriberName>
        <FirstDateCreated>2014-02-28</FirstDateCreated>
        <LastDateUpdated>2014-08-31</LastDateUpdated>
      </ContactSourceRecord>
    </ContactSources>
  </ContactDataRecord>
</ContactData>
<SafpsData>
  <SafpsDataRecord>
    <SubjectNumber>2</SubjectNumber>
    <CategoryNumber>10</CategoryNumber>
    <CategoryDescription>BUSINESS FRAUD/PERSON UNKNOWN</CategoryDescription>
```


8.1.2 REST JSON Output Example

JSON Success Output Example HTTP 200

```
{
  "response_status": "Success",
  "error_code": null,
  "error_description": null,
  "return_data": {
    "enquiry_id": 5055728859990000622,
    "enquiry_date": "2019-07-12 07:43:36:639",
    "search_criteria_data": {
      "identity_number": "7204155999189",
      "identity_type": "SID",
      "forename": "Koos",
      "surname": "Van Der Merwe",
      "want_sources": "Y",
      "want_pdf": "Y",
      "want_idv_service": "Y",
      "want_search_criteria": "Y",
      "want_addresses": "Y",
      "want_contact": "Y",
      "want_employment": "Y",
      "want_safps": "Y",
      "want_email": "Y",
      "want_deeds": "Y",
      "want_directors": "Y",
      "want_judgements": "Y",
      "want_notices": "Y"
    },
    "stats": {
      "person_found": "N",
      "idv_person_found": "N",
      "address_count": 2,
      "employment_count": 1,
      "contact_count": 2,
      "safps_count": 2,
      "email_count": 1,
      "deeds_property_count": 2,
      "deeds_prop_details_count": 2,
      "deeds_bond_count": 2,
      "director_count": 1,
      "judgements_count": 1,
      "notices_count": 1
    },
    "definite_match_data": null,
  },
}
```

```
"idv_data": {
  "trans_no": "4dc7694e-32bc-480e-bba4-9d183f4f22e6",
  "identity_number": "7204155999189",
  "name": null,
  "surname": null,
  "smart_card_issued": false,
  "date_of_id_issued": null,
  "idSeqNo": null,
  "deceased": false,
  "date_of_deceased": null,
  "idn_blocked": false,
  "marital_status": null,
  "date_of_marriage": null,
  "on_hanis": false,
  "on_npr": false,
  "birth_place_country_code": null,
  "error": 800
},
"address_data": [
  {
    "line_1": "6 BOESAK SINGEL",
    "line_2": "LOWS",
    "line_3": "BEAUFORT WEST",
    "line_4": "Block 4",
    "postal_code": "6970",
    "address_type": "R",
    "address_type_description": "RESIDENTIAL",
    "first_date_created": "2013-12-31",
    "last_date_updated": "2018-12-31",
    "number_of_sources": 1,
    "address_sources": [
      {
        "subscriber_code": "9",
        "subscriber_name": "MTM BUSINESS ENTERPRISE CC",
        "first_date_created": "2010-10-31",
        "last_date_updated": "2018-11-30"
      }
    ]
  }
],
{
  "line_1": "5 MURRY STREET",
  "line_2": "HIGHTS",
  "line_3": "BEAUFORT WEST",
  "line_4": "Block 3",
```

```
"postal_code": "6970",
"address_type": "R",
"address_type_description": "RESIDENTIAL",
"first_date_created": "2013-12-31",
"last_date_updated": "2013-12-31",
"number_of_sources": 2,
"address_sources": [
  {
    "subscriber_code": "8",
    "subscriber_name": "ACKERMAN SWZ",
    "first_date_created": "2010-10-31",
    "last_date_updated": "2018-12-31"
  },
  {
    "subscriber_code": "7",
    "subscriber_name": "ATLAS FINANCE",
    "first_date_created": "2010-10-31",
    "last_date_updated": "2013-12-31"
  }
]
},
"employment_data": [
  {
    "emp_name": "Mars",
    "occupation": "Pretender",
    "first_date_created": "2013-06-05",
    "last_date_updated": "2013-06-05",
    "number_of_sources": 1,
    "employment_sources": [
      {
        "subscriber_code": "1808",
        "subscriber_name": "NEW WORLD CASH LOANS CC",
        "first_date_created": "2012-04-08",
        "last_date_updated": "2013-03-31"
      }
    ]
  }
]
},
"contact_data": [
  {
    "contact_number": "827287904",
    "area_code": "012",
```


8.1.3 Error Output Examples

XML Error Output Example HTTP 400 and up

```
<BureauResponse>
  <ResponseStatus>Failure</ResponseStatus>
  <ErrorCode>IMS_606</ErrorCode>
  <ErrorDescription>Username or Password is incorrect for this Branch</ErrorDescription>
  <ReturnData xsi:nil="true" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"/>
</BureauResponse>
```

JSON Error Output Example HTTP 400 and up

```
{
  "response_status": "Failure",
  "error_code": "KYC_104",
  "error_description": "Invalid version number supplied",
  "return_data": null
}
```

9. Error Codes

Code	Description
Input Request Errors	
KYC_101	Not all variables filled in.
KYC_104	Invalid version number supplied
KYC_105	Origin Length exceeds 30 characters
KYC_106	Identity Number length exceeds 13 characters
KYC_107	Identity Type can only be SAID
KYC_108	Forename Length exceeds 35 characters
KYC_109	Surname length exceeds 35 characters

Note these errors are billable:

IMS_606	Username or Password is incorrect for this Branch
IMS_608	Branch not switched on for the service
KYC_200	Malformed data or escape sequences use like /n /t /r
KYC_201	Invalid SA ID number supplied
KYC_202	WantIDVService flag must be set to Y for input criteria
KYC_203	WantSources flag must be set to Y for input criteria
Critical Errors	
KYC_900 – KYC_999	Internal System Error (Error messages are mapped internally based on the error code)

10. Appendix 1: Base64

What is Base64: <http://en.wikipedia.org/wiki/Base64>What is PK Zip: <http://en.wikipedia.org/wiki/PKZIP>

Why is Base64 used: This is to ensure that the data remain intact without modification during transport.

Decoding

This will typically be done with XML result files received.

1. Decode the result string via Base64
2. The decode value will be in a PK zip format.
3. To verify that the result is a valid zip file, read the first 2 bytes of the returning stream and ensure that you read the letters “P” and “K”. When the length of the returning bytes is less than 5, it is an indication that an error code has been returned. More than 5 bytes indicates that a file has returned containing the requested results.
4. Extract the Zip contents to expose the resulting XML block or file