Connected Home Data Structures

**IOT Data**

To manage and organize the data for UBI and Connected Home we have made a data structure that encompasses both programs. This structure will have incremental updates triggered upon by different sources. Initially we will be making a post to our index when we get a response from the nest bulk order API. This information will include fulfillment and policy data. Once the user has given us access to connect to their device, digital will send us that user’s policy number and access token. The structure in this document has been reduced to a model only for connected home.

{

"policySummary": {

"agreementNumber": "AZSS104160375",

"type": "Auto",

"productCode": "UBI",

"referencedMembership": "4290060917267002",

"riskState": "AZ",

"clubCode": "006",

"status": "issued",

"statusReason": "123",

"vhsConversionFlag": "true",

"conversionDate": "2016-03-01",

"namedInsuredSummary": [

{

"primary": "true",

"firstName": "Donald",

"middleName": "M",

"lastName": "Asbury",

"preferredEmailAddress": "334232@aol.com",

"clientID": "123",

"telephoneNumber": [

{

"type": "Cell",

"preferred": "true",

"displayValue": "7194940419"

},

{

"type": "Home",

"preferred": "false",

"displayValue": "8194941420"

}

],

"address": [

{

"cityName": "Peyton",

"zipCode": "80831-6442",

"streetAddressLine": "9932 Rockingham Dr",

"extendedStreetAddressLine": "Apt 112",

"isoCountryCode": "US",

"isoRegionCode": "CO",

"type": "Mailing"

},

{

"cityName": "Peyton",

"zipCode": "80831-6442",

"streetAddressLine": "9932 Rockingham Dr",

"isoCountryCode": "US",

"isoRegionCode": "CO",

"type": "Residential"

}

]

},

{

"primary": "false",

"firstName": "MARGARET",

"middleName": "L",

"lastName": "ASBURY",

"preferredEmailAddress": "123914@aol.com",

"telephoneNumber": [

{

"type": "Cell",

"preferred": "true",

"displayValue": "7194940419"

},

{

"type": "Home",

"preferred": "false",

"displayValue": "8194941420"

}

],

"address": [

{

"cityName": "Peyton",

"zipCode": "80831-6442",

"streetAddressLine": "9932 Rockingham Dr",

"isoCountryCode": "US",

"isoRegionCode": "CO",

"type": "Mailing"

},

{

"cityName": "Peyton",

"zipCode": "80831-6442",

"streetAddressLine": "9932 Rockingham Dr",

"isoCountryCode": "US",

"isoRegionCode": "CO",

"type": "Residential"

}

]

}

],

"dwelling": {

"enrollmentStatus": "Enrolled",

"cityName": "Peyton",

"zipCode": "80831-6442",

"streetAddressLine": "9932 Rockingham Dr",

"isoCountryCode": "US",

"isoRegionCode": "CO",

"device": [

{

"provider": "Nest",

"manufacturer": "Nest",

"deviceID": "7000008",

"statusCode": "Installed",

"accessToken": "xxxxxxxxxx",

"creationDate": "2016-03-01",

"closureDate": "2016-03-01",

"expectedVoucherClosureDate": "2016-03-01",

"shipmentDate": "2016-03-01",

"shipmentTrackingNumber": "1234567890",

"shipmentCarrierCode": "Fedex",

"associationDate": "2016-03-01",

"activationDate": "2016-03-01",

"mobileTerminalReturnDate": "2016-03-01"

},

{

"provider": "Nest",

"manufacturer": "Nest",

"deviceID": "7000009",

"statusCode": "Installed",

"accessToken": "xxxxxxxxxx",

"creationDate": "2016-03-01",

"closureDate": "2016-03-01",

"expectedVoucherClosureDate": "2016-03-01",

"shipmentDate": "2016-03-01",

"shipmentTrackingNumber": "1234567890",

"shipmentCarrierCode": "Fedex",

"associationDate": "2016-03-01",

"activationDate": "2016-03-01",

"mobileTerminalReturnDate": "2016-03-01"

}

]

}

}

}

**Device Data**

Nest offers the safety rewards program for partners to help access device data from their customers. Using this program, Nest will provide us with a monthly file that contains the device data. The following is an example of the data structure we can expect from Nest.

{

"client\_id": "aaaa",

"start\_date": "2015-06-17",

"end\_date": "2015-06-30",

"customers": [

{

"access\_token": "c.XXXXX",

"structures": [

{

"structure\_id": "98765lkjh",

"connectivity": "Good [Low, Unknown]",

"smoke\_co\_alarms": [

{

"device\_id": "1a2b3c",

"where": "hallway",

"activation\_date": "2015-06-18 01:42:35",

"as\_of\_date": "2015-06-30 18:22:03",

"battery\_level": "Good [Replace, Unknown]",

"smoke\_sensor\_status": "OK [Issue, Unknown]",

"co\_sensor\_status": "OK [Issue, Unknown]"

},

{

"device\_id": "0p9o8i",

"where": "custom",

"activation\_date": "2015-06-18 01:44:32",

"as\_of\_date": "2015-06-30 19:00:51",

"battery\_level": "Good",

"smoke\_sensor\_status": "OK",

"co\_sensor\_status": "OK"

}

]

}

]

}

]

}