

This Contains the API release for DEN For
Duo Subscriber 4.0

Duo Subscriber API

1.0.0.1

Duo Software(Pvt)Ltd

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Testing Server Details

API Call URI as bellow

<http://172.16.8.85/html/> to send the requests

send Request Header parameters for testing

content-type: application/json

entity: 82-denmg

duoapikey: textapi0001

82-denmg connects to bellow database server

DB Server 172.16.8.205

DB Name: denmg

Server	DB Name	entity
172.16.8.54	dendb	dendb
172.16.8.205	birdseye	205-birdseye
172.16.8.205	bulkden	205-bulkden
172.16.8.205	crystalvision	205-crystalvision
172.16.8.205	denambey	205-denambey
172.16.8.205	dendb	205-dendb
172.16.8.205	denfkable	205-denfkable
172.16.8.205	denkk	205-denkk
172.16.8.205	denlco	205-denlco
172.16.8.205	denmg	205-denmg
172.16.8.205	enjoy	205-enjoy
172.16.8.205	geminicable	205-geminicable
172.16.8.205	whdb	205-whdb

Sample C# Code call a

```
MakeRequest("http://172.16.8.85/html/lco/lcobyvcno/LCONS024",null,"GET",  
"application/json", typeof(BaseTarifCall), _Entity);
```

Function

```
public string MakeRequest(string requestUrl, object JSONRequest, string JSONmethod,  
string JSONContentType, Type JSONResponseType,string Entity)  
{  
  
    try  
    {  
        HttpWebRequest request = WebRequest.Create(requestUrl) as  
HttpWebRequest;  
        //WebRequest WR = WebRequest.Create(requestUrl);  
        request.Headers["entity"] = Entity;  
        string sb = JsonConvert.SerializeObject(JSONRequest);  
        request.Method = JSONmethod;
```

```

        if (JSONmethod == "POST")
        {
            // "POST";request.ContentType = JSONContentType; //
"application/json";
            Byte[] bt = Encoding.UTF8.GetBytes(sb);
            Stream st = request.GetRequestStream();
            st.Write(bt, 0, bt.Length);
            st.Close();
        }

        using (HttpWebResponse response = request.GetResponse() as
HttpWebResponse)
        {
            if (response.StatusCode != HttpStatusCode.OK) throw new
Exception(String.Format(
                "Server error (HTTP {0}: {1}).", response.StatusCode,
                response.StatusDescription));

            //DataContractJsonSerializer jsonSerializer = new
DataContractJsonSerializer(typeof(Response));// object objResponse =
JsonConvert.DeserializeObject();Stream stream1 = response.GetResponseStream();
//Stream stream1 =new Stream();
            StreamReader sr = new StreamReader(response.GetResponseStream());
            string strsb = sr.ReadToEnd();
            //object objResponse = JsonConvert.DeserializeObject(strsb,
JSONResponseType);

            return strsb;
        }
    }
    catch (Exception e)
    {

        return e.Message;
    }
}

```

Check Version

This Gets the Version of the API

HTTP request

```
GET /version
```

Header

content-type: application/json

Response

Response type :application/json

Response Success

```
{
  "success": true,
  "result": "1.0.0.0"
}
```

Response Error

```
{
  "success":false,
  "result":{"Error Message"}
}
```

Customer Account API

This Restful API for accessing Local Cable operators Functions Exposed by Duo Subscriber 4.1

Get Account by VC Number

This Api help to get all information of the account

1. Account Information
2. Entitlements
3. Active Channels

HTTP request

```
GET /account/lbyvc/@vcno
```

Header

content-type: application/json

entity: @ENTITY

duoapikey: @APIKEY

Parameters

Name	Value	Description
@vcno	string	VC Number of the customer setup box
@Entity	string	Connection for the database access / LCO Operators DB Location
@APIKEY	string	API Key provided by Duo Access portal

Response

Response type :application/json

Response Success

```
{"success":true,
```

```
"result":{"GUAccountID":"M0001000100001006490903","GUAccountChgID":"","CompanyID":1,"LocationID":1,"BranchID":1,"DeptID":1,"AccountNo":"6490903","GUCustID":"M00010001000010001003894247","CustCode":"DEN03894247","BillingAddress":"J- 74 Vishnu Garden","City":"Delhi","Status":"Active","BillingStatus":"Active","ServiceStatus":"Active","CustomerStatus":"Active","PreferredBillDate":1,"DateofActivated":{"date":"2015-01-06 19:27:54.000000","timezone_type":3,"timezone":"Asia/Calcutta"},"PlanStartDate":null,"PlanEndData":null,"Remarks":"","GUSubscriptionID":"M000100010001006490902","SubscriptionNo":"6490902","InitPayType":"N/A","RegistrationType":"LCO","CrateUser":"","CreateDate":{"date":"2015-01-
```

06

```
19:27:54.000000","timezone_type":3,"timezone":"Asia/Calcutta"},"GUDeactivationID":null,"RegisteredBy":null,"DisconnectionMode":"14","STBID":"400012285127842","SIMID":"24767D6ECE5E","SessionID":null,"GUBillingID":null,"BillingCode":null,"SystemNotes":null,"InitialActivationDate":null,"VATEXempt":"N","InstallationAddress":"J- 74 Vishnu Garden","InstallationCityPINCode":"110018","InstallationCity":null,"AccountCategoryID":2,"ApplicationSN":"Lcoportaldata","Removed":"N","rowguid":"FB75F5CE-4658-4C1C-9323-EDF10E7A8504","GUPromotionID":"P000100010000100001000000158","GUStartupKitID":"M000100010000100001000000014","DeliveryMode":null,"GUSalesGroupID":null,"PkgCode":null,"GUInstallationKitID":"","ApplicationStatus":null,"AccountLevel":"N","GUBranchID":null,"AccountTypeID":null,"GUDealerID":null,"GUSubDealerID":null,"Varified":"N","VarifiedBy":null,"VarifiedOn":null,"EmailBill":null,"GUAccountTypeID":null,"BillingCategory":"POSTPAID","BillAdd1":"J- 74 Vishnu Garden","BillAdd2":"","BillAdd3":"","AccessType":"4","GUCODEalerID":null,"MainKey":"CISCO","state":"Delhi","CAFReserve":"Y","InstallationCityPINCode1":null,"insAddr1":"J- 74 Vishnu Garden","insAddr2":"","insAddr3":"","insState":null,"insDistrict":null,"district":"West Delhi","SPCases":"","BmailSlot":"1","GUStateID":"M0001000100010001000000065","GUDistrictID":"M00010001000100010000000763","GUCityID":"M000100010000100001000003314","GUInsStateID":"M0001000100010001000000065","GUInsDistrictID":"M0001000100010001000000763","GUInsCityID":"M000100010000100001000003314","StupKitSalesType":0,"StupKtWarrentyExpDate":{"date":"2015-01-0619:29:35.437000","timezone_type":3,"timezone":"Asia/Calcutta"},"PIN":"110018","SalesChannelID":3,"GUSalesChannelInfoID":"","GUMDUID":"","PromotionChangeID":"5954276","CAFDate":{"date":"2018-12-1800:00:00.000000","timezone_type":3,"timezone":"Asia/Calcutta"},"GuBillingGrpID":"","InstallationRemarks":null,"LandMark":null,"CASType":"CISCO","BusinessCategory":"Prepaid","entitlements":[],"channels":[]}}
```

Response Error

```
{
  "success":false,
  "result":{"Error Message}
}
```


Get Account by Base Package renewal estimate

Helps to get the estimate of the base package for renewal

HTTP request

```
GET /account/renewcalculator/base_package/@vcno
```

Header

content-type: application/json

entity: @ENTITY

duoapikey: @APIKEY

Parameters

Name	Value	Description
@vcno	string	VC Number of the customer setup box
@Entity	string	Connection for the database access / LCO Operators DB Location
@APIKEY	string	API Key provided by Duo Access portal

Response

Response type :application/json

Response Success

```
{
  "success": true,
  "result": {
    "TotalB2BAmount": 0,
    "TotalB2CAmount": 0,
    "BillingDetails": [
      {
        "PackageCode": "BASE DOORDARSHAN",
        "PackageDescription": "Channel Package for Doordarshan Channels",
        "PackageCategory": 3,
        "AmountB2B": 0,
        "AmountB2C": 0,
        "Results": {Extra Messages from SP Error Information Ect}
      }
    ],
  }
}
```

Get Account by Ala carte Package renewal estimate

Helps to get the estimate of the ala carte package for renewal

HTTP request

```
GET /account/renewcalculator/alacarte_package/@vcno
```

Header

content-type: application/json

ENTITY: @ENTITY

DUOAPITOKEN: @APIKEY

Parameters

Name	Value	Description
@vcno	string	VC Number of the customer setup box
@Entity	string	Connection for the database access / LCO Operators DB Location
@APIKEY	string	API Key provided by Duo Access portal

Response

Response type :application/json

Response Success

```
{
  "success": true,
  "result": {
    "TotalB2BAmount": 0,
    "TotalB2CAmount": 0,
    "BillingDetails": [
      {
        "PackageCode": "BASE DOORDARSHAN",
        "PackageDescription": "Channel Package for Doordarshan Channels",
        "PackageCategory": 3,
        "AmountB2B": 0,
        "AmountB2C": 0,
        "Results": {Extra Messages from SP Error Information Ect}
      }
    ],
  }
}
```

Response Error

```
{
  "success":false,
  "result":{"Error Message}
}
```

Local Cable Operator API

This Restful API for accessing Local Cable operators Functions Exposed by Duo Subscriber 4.1

Get LCO by VC Number

HTTP request

```
GET /lco/lcobyvcno/@vcno
```

Header

content-type: application/json

entity: @ENTITY

duoapikey: @APIKEY

Parameters

Name	Value	Description
@vcno	string	VC Number of the customer setup box
@Entity	string	Connection for the database access / LCO Operators DB Location
@APIKEY	string	API Key provided by Duo Access portal

Response

Response type :application/json

Response Success

```
{
  "success":true,
```

```
"result":{"LocationID":1,"CompanyID":1,"BranchID":1,"DeptID":1,"LCOID":"11361","GULCOID":"M000100010000100001000011361","LCOCode":"LCONS723","LCOName":"Bharat Cable Network","Address":"House no.2563 Hussaini Chowk Pinjarghat Road","GUCityID":"M000100010000100001000003276","ContactNo1":"9890226942","ContactNo2":"","FaxNo":"","DecoderSN":null,"MailAddress":"","Active":"Y","GUCustID":"M000100010000100001003860976","CreditPeriod":14,"CreditLimit":"0","LCOLevel":2,"GUParentLCOID":"M000100010000100001000005285","AreaDetails":"Pinjarghat Road,Kazipura","CODealerType":"LCO","NoOfDemoBoxes":null,"GUItemID":"","SysStatus":"N","GUStateID":"M0001000100010001000000039","PinCode":"422001","LcoOwn":null,"Ownership":"N","OfferingInternet":"N","MaxDemoBoxCount":0,"CurrentDemoBoxCount":null,"InvoiceNo":null,"GUBillingGroup":"","BillingDealerType":"","BillingDealerLevel":"","REPUID":11368,"BillingAdjustment":null,"BillingType":"Prepaid","OperationHeadIID":null,"OperationManagerIID":null,"siteId":null,"siteCode":null,"DASID":null,"Validity":"30D","AreaManagerID":null,"Commision":null,"GSTRegNo":null,"GSTRegDate":null,"IsLCOShare":"P","LCOShareValue":"60","PanNo":null,"HSNSACode":null,"GSTRegistered":"1","TotalDiscount":".00"}
```

```
}
```

Response Error

```
{  
  "success":false,  
  "result":{"Error Message"}  
}
```

Get LCO Wallet Balance

HTTP request

```
GET /lco/balance/@lcocode
```

Header

content-type: application/json

entity: @ENTITY

duoapikey: @APIKEY

Parameters

Name	Value	Description
@lcocode	string	Code of the LCO
@Entity	string	Connection for the database access / LCO Operators DB Location
@APIKEY	string	API Key provided by Duo Access portal

Response

Response type :application/json

Response Success

```
{  
  "success": true,  
  "result": -172186.91  
}
```

Response Error

```
{  
  "success": false,  
  "result": {Error Message }  
}
```

Get LCO Expiring Boxes with renewal calculations

This Method sends out all the calculations for LCOs expiring vcNos

HTTP request

```
GET /lco/lcobyvcno/@lcocode/@lastid/@number_of_days
```

Header

content-type: application/json

entity: @ENTITY

duoapikey: @APIKEY

Parameters

Name	Value	Description
@lcocode	string	Local cable operators code
@lastid	int	Last Record id queried from the request id column sent by the api for paging
@number_of_days	int	Number of days
@Entity	string	Connection for the database access / LCO Operators DB Location
@APIKEY	string	API Key provided by Duo Access portal

Response

Response type : application/json

Response Success

```
{
  "success": true,
  "result": [
    {
      "vcno": "000102121043",
      "stbno": "350115250053339",
      "accountno": "8316690",
      "ServiceStatus": "Active",
      "TotalB2BAmount": 222.7,
      "TotalB2CAmount": 388.22,
      "BillingDetails": [
        {
          "PackageCode": "BST UP 9",
          "PackageDescription": "Channel Package for UP9 Bouquet",
          "PackageCategory": 4,

```

```

        "AmountB2B": "28.32",
        "AmountB2C": "70.80",
        "Results": [
            {
                "AmountB2B": "28.32",
                "AmountB2C": "70.80"
            }
        ]
    },
    {
        "PackageCode": "STAR INDIA - HINDI VALUE (STAR0004)",
        "PackageDescription": "Star Hindi Value Addon Pack",
        "PackageCategory": 4,
        "AmountB2B": "50.88",
        "AmountB2C": "57.82",
        "Results": [
            {
                "AmountB2B": "50.88",
                "AmountB2C": "57.82"
            }
        ]
    },
    {
        "PackageCode": "SONY - HAPPY INDIA 31 (A) (SONY0001A)",
        "PackageDescription": "Sony - Happy India 31 (A) ADDON
PACK",
        "PackageCategory": 4,
        "AmountB2B": "32.20",
        "AmountB2C": "36.58",
        "Results": [
            {
                "AmountB2B": "32.20",
                "AmountB2C": "36.58"
            }
        ]
    },
    {
        "PackageCode": "ZEE - FAMILY PACK HINDI SD (ZEEL0006)",
        "PackageDescription": "Zee Family Hindi SD Addon Pack",
        "PackageCategory": 4,
        "AmountB2B": "49.94",
        "AmountB2C": "69.62",
        "Results": [
            {
                "AmountB2B": "49.94",
                "AmountB2C": "69.62"
            }
        ]
    },
    {
        "PackageCode": "BASE DOORDARSHANUP9",
        "PackageDescription": "Channel Package for UP9 Bq",
        "PackageCategory": 3,
        "AmountB2B": "61.36",
        "AmountB2C": "153.40",
        "Results": [
    
```

```
    {
      "AmountB2B": "61.36",
      "AmountB2C": "153.40"
    }
  ],
  "id": 124148030
}]}
```

Response Error

```
{
  "success":false,
  "result":{"Error Message"}
}
```