

This Contains the API release for DEN For  
Duo Subscriber 4.0

# Duo Subscriber API

1.0.0.3

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,"PlanEndDate":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/renew_expiringaccounts/@lccode/@lastid/@number_of_days
```

### Header

**content-type:** application/json

**entity:** @ENTITY

**duoapikey:** @APIKEY

### Parameters

Name	Value	Description
@lccode	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}
}
```

### Get LCO all boxes with renewal calculations

This Method sends out all the calculations for LCOs expiring vcNos

### HTTP request

```
GET /lco/ renewboxes/@lcocode/@lastid
```

### 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"}
}
```