# Mundu Radio Classic

## Server Side API Protocol



**Document Version 1.00**

# 1.    About this Document

This document serves as a handy reference while developing the client for Mundu services on various platforms. The various methods of Mundu User Management API have been explained in this document with the help of appropriate descriptions and tables.

## 1.1.  Intended Audience

This document describes the methods of Mundu User Management API for developers of Mundu Mobile Clients or Web sites intending to integrate the Clients for any of the Mundu Service, which uses a user subscription, based model. This document is organized into logical sections that help you to familiarize with the application.

## 1.2.  Conventions Used

Throughout this document, we will refer to specific items of information in the following ways:

An additional point that needs attention

# 2.    Methods for HTTP Calls

➢ All requests would be through **HTTP GET**.

➢ Request Data packet for all API's

| Parameter | Description | Specification |
|-----------|-------------|---------------|
| UID | Mundu Radio User ID. It will be users mobile number | Min – 10 chars<br>Max – 16 chars |
| DATA | = **BIN2HEX(RC4(POSTDATA,KEY))**<br>where,<br>POSTDATA is:<br><parameter1>=<value1>&<parameter2>=<value2><br>**For example:**<br>PRID=1&FNAME=manoj&LNAME=rane<br>KEY = SECRET_KEY + ':' + RandomKey;<br>RandomKey ==  random[10  99] | Depends on each method |
| AUTHSTR | = md5 (ENC_PASSWORD + DATA )<br>Where,<br>ENC_PASSWORD  = md5 (user's password) | Max 32 chars |
| IsAdmin | 0 – Normal User<br>1 – Admin User | Max 1 char |
| SID | Service ID | Max – 2 chars<br>Default 1 |
| PRID | Protocol ID | Max – 5 chars |
| LID | Language ID | Max – 5 chars<br>Default en-US |
| DVCI | :<identification type>:<identification no>: | |
| BLID | Build ID | Max – 9 chars |

➢   Response Data packet for all API's

◆   **Format**

<status_code>|<response_data>

◆   **Example**

0|lfsfsklfjlskjflskjflsfklsjfw8erur9230i22lsdfskjlrqwr

1|Invalid User ID

◆   **Response Data**

| Parameter | Description |
|---|---|
| Status | This will be status code of API.<br>Status code 0 and 1 is common for all API. Other status code are specific to each method used.<br>0 - Success<br>1 - Fatal Error |
| Response Data<br>if Status  == 0 | This parameter will be available only for status code is 1. i.e. API is successfully executed<br><br>It is generated as follows:<br>BIN2HEX(RC4(RESPONSEDATA, KEY)<br><br>where:<br>RESPONSEDATA is the data that is specific to each method<br>and<br>KEY = SECRET_KEY + ':' + RandomKey; |
| Message<br>if Status  != 0 | This parameter will be available for status code which having value other than 1. i.e. API is having some error.<br>Message sent from the server for any error conditions.<br><br>Note: The fatal errors should be displayed as it is on the client. |

# 3.    Description of Methods for HTTP Calls

## 3.1.  Creating Account or Registration

**Purpose:** To create an account for accessing services of mundu radio classic

**URL:**   http://m.munduradio.com/auth/register

**Request Data Parameters:**

*No UID and AUTHSTR will be passed in the request for this method.*

**C** for **Compulsory** parameter and   **D** for **default value**.

| Parameter | Allowed Characters | C | D | Min | Max |
|---|---|---|---|---|---|
| USERID<br>**It will user's mobile number.** | [0 9] [space] ( ) + | Y | | 10 | 16 |
| PASSWD | [a  z A  Z][0 9][special chars] | N | Null | 6 | 32 |
| EMAIL | [a  z A  Z][0 9]._%-+@ | N | Null | 10 | 255 |
| ADDRESS | [a  z A  Z][0  9][. ; ,/ ()] | N | Null | | 50 |
| CITY | [a-z A-Z] | N | Null | | 50 |
| STATE | [a-z A-Z] | N | Null | | 150 |
| COUNTRY | [a-z A-Z] | N | Null | | 10 |
| ZIP | [0-9] | N | Null | | 10 |
| PHONENO | [0-9][+ - ()] | N | Null | | 16 |
| MOBILENO | [0-9][+ - ()] | N | Null | | 16 |
| GENDER | M - Male,  F - Female | N | M | | |
| DOB | dd/mm/yyyy | N | Null | | |
| PLATFORM | **WS** windows smartphone, **w**  pocket pc, **p** Palm, **s**  symbian | N | Null | | |

| TOKENREQD | Y- API will return the token<br>N – API will not return token | N | N | | |
|-----------|-----------------------------------------------------------|---|---|---|---|
| ACTMAILREQD | 0 – API will not send an email<br>1 – API will send an email | N | 0 | | |
| REGFLAG<br>**Flag to send the service ID** | [a-z A-Z][0-9][. - ; ,/ ()] | N | Null | | 25 |

## Response Data

| Parameter | Description |
|-----------|-------------|
| Status | 0 - Success, User can start accessing the mundu radio services<br>1 - Fatal Error<br>2 - User ID/Password Invalid<br>3 - Email activation required. Mail sent<br>4 - Manual Approval Pending<br>5 - <input field> Invalid<br>6 - User ID existent<br>7 - Email already registered |
| Response Data if Status == 0 | It will contains<br>Token (Token Key i.e. distribution key)<br>and<br>UID<br>User Serial ID An auto-increment unique key for all the users |

## 3.2.  Secure client Login

**Purpose:** To get user authenticate from client app. ,when its start first time.

**URL:**   http://m.munduradio.com/auth/login

**Request Data Parameters:**

<div align="right">

**C** for **Compulsory** parameter and   **D** for **default value**.
</div>

| Parameter | Allowed Characters | C | D | Min | Max |
|---|---|---|---|---|---|
| username<br>**It will user's mobile number.** | [0 9] [space] ( ) + | Y | | 10 | 16 |
| password | [a z A Z][0 9][special chars] | Y | | 6 | 32 |

Response Data

| Parameter | Description |
|---|---|
| Status | 0 - Success, User can start accessing the mundu radio services<br>1 - Fatal Error<br>2 - User ID/Password Invalid |
| Response Data if Status == 0 | **DSTK** Token (Token Key i.e. distribution key)<br>**LCNT**<br>License type fixed length 1 – can take any of the following values:<br>E – Evaluation license for a build which does not support extended trial<br>R – Paid license<br>X - Evaluation license for a build which supports extended trial<br>T – Evaluation license which is in extended trial<br>**ACTD** Activation date, fixed length – 8, (valid date format : YYYYMMDD)<br>**EPXD** Expiry Date, the fixed length – 8, (valid date format : YYYYMMDD) |
| Response Data if Status <> 0 | Text Message Contains the status description (Max 200 chars) |

### 3.3. Auto-Login

**Purpose:** To allow user automatically logged in when client app. starts

**URL:**　http://m.munduradio.com/auth/auto-login

**Request Data Parameters:**

**C** for **Compulsory** parameter and **D** for **default value**

| Parameter | Allowed Characters | C | D | Min | Max |
|---|---|---|---|---|---|
| username<br>**It will user's mobile number.** | [0 9] [space] ( ) + | Y | | 10 | 16 |
| DSTK | [a  z A  Z][0 9][special chars] | Y | | 6 | 16 |

Response Data

| Parameter | Description |
|---|---|
| Status | 0 - Success<br>1 - Fatal Error<br>2 – DSTK key Invalid |
| Response Data<br>if Status  == 0 | **LCNT**<br>License type fixed length 1 – can take any of the following values:<br>E – Evaluation license for a build which does not support extended trial<br>R – Paid license<br>X - Evaluation license for a build which supports extended trial<br>T – Evaluation license which is in extended trial<br>**ACTD**<br>Activation date, fixed length – 8, (valid date format : YYYYMMDD)<br>**EPXD**<br>Expiry Date, the fixed length – 8, (valid date format : YYYYMMDD) |
| Response Data<br>if Status  <> 0 | Text Message Contains the status description (Max 200 chars) |

### 3.4.  Changing Password

**Purpose:** To change current password

**URL:**  http://m.munduradio.com/auth/password/change

**Request Data Parameters:**

**C** for **Compulsory** parameter and   **D** for **default value**

| Parameter | Allowed Characters | C | D | Min | Max |
|-----------|-------------------|---|---|-----|-----|
| username<br>**It will user's mobile number.** | [0 9] [space] ( ) + | Y | | 10 | 16 |
| DSTK | [a   z A   Z][0 9][special chars] | Y | | 6 | 16 |
| PASSWD | [a   z A   Z][0 9][special chars] | Y | | | 32 |
| NPASSWD | [a   z A   Z][0 9][special chars] | Y | | | 32 |

Response Data

| Parameter | Description |
|-----------|-------------|
| Status | 0 - Success<br>1 - Fatal Error<br>2 - User ID Invalid<br>3 - Authentication Failure |
| Response Data if Status  <> 0 | Text Message Contains the status description (Max 200 chars) |

## 3.5.  Getting Password

**Purpose:** To retrieve password

**URL:**   http://m.munduradio.com/auth/password/get

**Request Data Parameters:**

**C** for **Compulsory** parameter and   **D** for **default value**

| Parameter | Allowed Characters | C | D | Min | Max |
|-----------|-------------------|---|---|-----|-----|
| username<br>**It will user's mobile number.** | [0 9] [space] ( ) + | Y | | 10 | 16 |
| DSTK | [a  z A  Z][0 9][special chars] | Y | | 6 | 16 |

**Response Data**

| Parameter | Description |
|-----------|-------------|
| Status | 0 - Success<br>1 - Fatal Error<br>2 - User ID Invalid<br>3 - Authentication Failure |
| Response Data<br>if Status  <> 0 | Text Message Contains the status description (Max 200 chars) |

## 3.6. Subscription

**Purpose:** To get channels list

**URL:** http://m.munduradio.com/client/channels/get

**Request Data Parameters:**

**C** for **Compulsory** parameter and **D** for **default value**

| Parameter | Allowed Characters | C | D | Min | Max |
|---|---|---|---|---|---|
| username<br>**It will user's mobile number.** | [0 9] [space] ( ) + | Y | | 10 | 16 |
| DSTK | [a z A Z][0 9][special chars] | Y | | 6 | 16 |

**Response Data**

| Parameter | Description |
|---|---|
| Status | 0 – Success – Text message would be displayed.<br><br>1 – Fatal Error – Text message would contain the cause of the failure.<br><br>The text message should be shown and should be cleared only after human intervention |
| Response Data<br>if Status == 0 | <?xml version="1.0" encoding="utf-8"?><br><br><playlist><category value="Live"> <genre value="TV"><numurl value="8"><br><br><title value="Setmax" url0="http://122.170.123.21/cid=56&prf=0&" url1="http://122.170.123.21/cid=56&ctype=0&prf=0&" ID="2" Expiry_date="2009-05-19 16:58:30" status="text" ndl="15" type = 'F' msg = 'text'/><br><title value="Archive1" url0="http://ek.s3.amazonaws.com/80_0" url1="http://ek.s3.amazonaws.com/80_0" ID="4" Expiry_date="2009-05-28 16:58:30" status="text" ndl="24" type = 'F' msg = 'text/><br><br></genre></category></playlist> |
| Response Data<br>if Status <> 0 | Text Message Contains the status description (Max 200 chars) |

## 3.7. Upgrade

**Purpose:** Check for new version is  available to upgrade the client.

**URL:** http://m.munduradio.com/client/upgrade

**Request Data Parameters:**

C for **Compulsory** parameter and   **D** for **default value**

| Parameter | Allowed Characters | C | D | Min | Max |
|---|---|---|---|---|---|
| username<br>**It will user's mobile number.** | [0 9] [space] ( ) + | Y | | 10 | 16 |
| DSTK | [a   z A   Z][0 9][special chars] | Y | | 6 | 16 |

**Response Data**

| Parameter | Description |
|---|---|
| Status | 0 – No upgrade; the latest version is in use.<br><br>1 – Forced Automatic; the version in use is unusable and no function of the application can be used until the product is upgraded. The version should be automatically upgraded.<br><br>2 – Forced Manual; the version in use is unusable and no function of the application can be used until the product is upgraded. The version should be manually upgraded.<br><br>3 – Automatic; the current version can be used. The version can be automatically upgraded.<br><br>4 – Manual; the current version can be used. The version can be manually upgraded.<br><br>5 – Fatal Error |
| Response Data<br>if Status between<br> [1 4] | **URL** Variable length – 1024 chars;<br>**UPSZ** Max length – 9 (only digits);<br>**NUCD** Fixed length – 8 (valid date format : YYYYMMDD) |
| Response Data<br>if Status  <> 0 | Text Message Contains the status description (Max 200 chars) |