



Mid Day Meal Centralized Information System (MDM-CIS)

21st May, 2016



MDM-CIS Work Flow

- State/ UT's may collect daily MDM data through any technology like IVRS, SMS
- State/ UT's push daily data XML file in batches using web service in centralized database or web interface
- State/ UT's user get response 'success' in case of success & failure in case of 'failure' at uploading time
- A scheduler periodically gets invoked automatically to check any file has been uploaded by user in current date (Note: Frequency of Scheduler may be adjusted)
- Scheduler process the uploaded file after checking all necessary validation(Insert/Update the data in database)
- Finally Scheduler updates the status of file i.e 0 : Fresh (By Default), 1:Proceed & OK,2: Bad File
- Users may check status of all uploaded file after login & may view distinct school count in a particular file.

MDM-CIS Work Flow Contd'

- If a file has a single bad record (like school code does not match, or any other validation failure) whole file is rejected
- Once file has been proceed successfully, count in dashboard reports is reflected automatically.
- States/UT's has to develop Clint code of web service to consume web service or We can provide them
- Himachal Pradesh & Uttar Pradesh have successfully consumed web service & uploaded files recently
- Different Reports may be made online basis on data captured for decision making of different stakeholders

Structure of XML Captured

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<DailyMidDayMeal>
```

```
<MDMHeader BatchType="F" BatchIDCreateDateTime="DD/MM/YYYYHH:MM:SS" BatchCount="AAAAA"  
MDMServedDate="20/05/2016" StateID="09">
```

```
<DailyTransactions>
```

```
<sno>1</sno>
```

```
<SchoolCode>09252000101</SchoolCode>
```

```
<MDMServedCount>111</MDMServedCount>
```

```
<ReasonCode>0</ReasonCode>
```

```
<TxnDateTime>2016-05-20 10:28:32.217</TxnDateTime>
```

```
</DailyTransactions>
```

```
<DailyTransactions>
```

```
<sno>2</sno>
```

```
<SchoolCode>09252000102</SchoolCode>
```

```
<MDMServedCount>222</MDMServedCount>
```

```
<ReasonCode>0</ReasonCode>
```

```
<TxnDateTime>2016-05-20 10:28:32.217</TxnDateTime>
```

```
</DailyTransactions>
```

```
</MDMHeader>
```

```
</DailyMidDayMeal>
```

Structure of XML Captured Contd'

Each Node of XML file contains data of a single school. Description is as follows

- **StateID:** State DISE Code
- **SchoolCode:** School DISE Code
- **MDMServedCount:** No of Meals Served
- **ReasonCode:** Reason Code like 1 in case of Cook Not Available
- **TxnDateTime:** Transaction Date Time

Description of Web Service

- Web services are open standard (XML, SOAP, HTTP etc.) based Web applications that interact with other web applications for the purpose of exchanging data.
- **URL of MDM CIS web service is <http://164.100.160.114/consume.asmx>**
- `<?xml version="1.0" encoding="utf-8"?>`
- `<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">`
- `<soap:Body> <save_file xmlns="http://10.25.120.107/MDM_SMS_CIS/">`
`<user_id>string</user_id>`
`<md5convertedpassword>string</md5convertedpassword> <token></token>`
`<filename>string</filename>`
- `<state_id>string</state_id>`
- `<f>base64Binary</f>`
- `</save_file>`
- `</soap:Body>`
- `</soap:Envelope>`

Description of Web Service Contd'

- `user_id`: User Id of State
- `md5convertedpassword`: `md5(md5(password), token)`
- `token`: (Random Number, Timestamp)
- `filename`: File Name
- `f`: Byte Array of File
- State/ UT's user get response 'success' in case of success & failure in case of 'failure' (Error)

Uploaded Files Status View

User may view all pushed/uploaded Files as user-->Login--->Data Uploading

File Uploading System

Select file from system

Uploaded XML Files Detail

S.No.	Upload Id	Processing Status	School Count	Uploading Time	Processing Time
1	130	Processed	566	May 19 2016 7:13PM	May 19 2016 7:48PM
2	129	Processed	8745	May 19 2016 7:13PM	May 19 2016 7:48PM
3	128	Processed	10000	May 19 2016 7:12PM	May 19 2016 7:48PM
4	127	Processed	10000	May 19 2016 7:12PM	May 19 2016 7:48PM
5	126	Processed	10000	May 19 2016 7:12PM	May 19 2016 7:48PM
6	125	Processed	10000	May 19 2016 7:12PM	May 19 2016 7:48PM
7	124	Processed	10000	May 19 2016 7:11PM	May 19 2016 7:48PM
8	123	Processed	10000	May 19 2016 7:11PM	May 19 2016 7:48PM
9	122	Processed	10000	May 19 2016 7:11PM	May 19 2016 7:48PM
10	121	Processed	10000	May 19 2016 7:11PM	May 19 2016 7:48PM
11	120	Processed	4837	May 18 2016 7:16PM	May 18 2016 7:48PM
12	119	Processed	10000	May 18 2016 7:16PM	May 18 2016 7:48PM
13	118	Processed	10000	May 18 2016 7:16PM	May 18 2016 7:48PM
14	117	Processed	10000	May 18 2016 7:16PM	May 18 2016 7:48PM
15	116	Processed	10000	May 18 2016 7:15PM	May 18 2016 7:48PM
16	115	Processed	10000	May 18 2016 7:15PM	May 18 2016 7:48PM
17	114	Processed	10000	May 18 2016 7:15PM	May 18 2016 7:48PM
18	113	Processed	10000	May 18 2016 7:14PM	May 18 2016 7:48PM
19	112	Processed	10000	May 18 2016 7:14PM	May 18 2016 7:48PM
20	111	Processed	10000	May 18 2016 7:13PM	May 18 2016 7:48PM

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Status of software for Automated Reporting & Management System

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- A demonstration of the MDM-Automated Reporting and Management System (MDM-ARMS) was given to Additional Chief Secretary (Education), GoHP and other officers of the HP Elementary Education Department dealing with MDM project.
- The ACS (Education) GoHP has desired to roll out this project immediately with no incoming cost to the respondents as the HP Education Department will bear the cost of both incoming & outgoing SMSs.
- Therefore, it is a pre-condition for the implementation of the SW to have free incoming SMS on the NIC SMS Gateway.
- The TRAI, Gol will approve this facility on the SMS Gateway for all operators. A request has to be sent to the Secretary, TRAI from the Secretary, School Education & Literacy, MHRD Gol.

Status

- The formats for master data and the transaction data have been shared with the Ministry
- UDISE code would be the school code for all schools of all states
- UP and Bihar have shared the master data of schools
- UDISE code for many of the schools of UP has not been provided

Status at the Centre

- The posting of the transaction data on the central server through web service has been tested with HP successfully
- A prototype of the Dashboard has been developed and demonstrated

Indicative parameters to be captured daily

Number of children availed MDM

Reason if meals not served:

- **Non availability of Food grains**
- **Non availability of funds/cooking cost/ingredients**
- **Absence of cook-cum-helpers**
- **Food Not Arrived from NGO/SHG**
- **Holiday in School**
- **Others**

Indicative parameters to be captured monthly

- | |
|------------------------------------------------------------------------------------------------------------------------------------------|
| ➤ Whether food is being tasted by teacher/parents/community member/cook-cum-helpers on daily basis before serving it to children or not? |
| ➤ Number of children enrolled in the school as on date |
| ➤ Whether buffer stock of food grains for one month is available in the school? |
| ➤ Whether school has sufficient fund available for meeting expenditure in the current month? |
| ➤ Whether honorarium to cook-cum-helpers has been paid till last month? |
| ➤ Other parameters as per the need of State/UT |

Indicative reports on central dashboard

- The data on coverage of children collected through automated will be compared with monthly data entry into MDM-MIS portal for further analysis.
- Report on schools where sufficient stock of food grains/cooking cost is not available for the subsequent month.
- Analysis on the expected utilization of food grains as per number of meals served over a month as per automated system.
- Comparison of the same with food grain utilization as entered in the school monthly data entry form in MDM-MIS portal.
- Analysis on the expected utilization of cooking cost as per number of meals served over a month as per automated system.
- Comparison of the same with cooking cost utilization as entered in the school monthly data entry form in MDM-MIS portal.
- Identification of the areas where expected consumption of food grains / cooking cost as per automated system is not reconciled with food grain/ cooking cost utilization as per monthly data entered into MDM-MIS portal and exceptions recorded.

Indicative reports on central dashboard

- Report on number and list of schools where MDM was not served and reasons thereon (Daily).
- Number of schools with unavailability of food grains, funds, absence of cook-cum-helpers etc. (Daily).
- Report on number of schools where MDM was not served for 'N' (configurable) number of days and reasons thereon (weekly/monthly).
- Identification of poor performing areas (States/Districts/Blocks/schools) where coverage of children is less than a certain (configurable) percentage of the enrolment.
- Identification of poor performing areas (States/Districts/Blocks/schools) where coverage of working days is less than a certain (configurable) percentage of number of school working days.
- Apart from indicative reports, various reports as per the need as and when required.
- All the reports would be made available in drill down format to users at Centre, State, District, Block etc.