

Service Integration

Low Level Design

For Kutumba

Details the ESB design for integrating Kutumba Service

Version : V0.1

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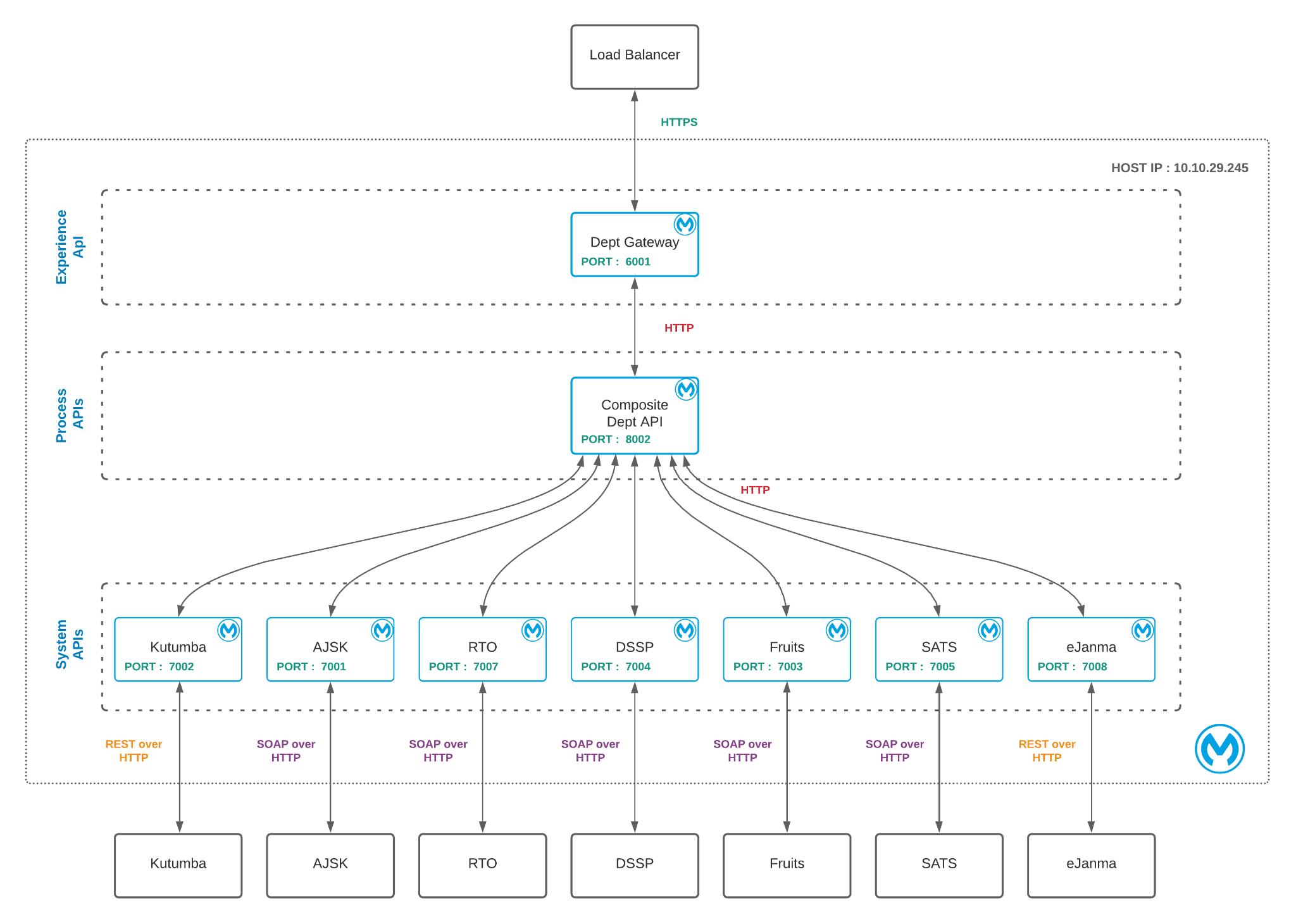
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# Introduction

This integration is to talk to connect to Kutumba service and get the beneficiary details. The below mentioned diagram shows the context in which the API is implemented and how the conection is established to the participating services in the integration.

## API Implementation Diagram



# Participating API Endpoints

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **Name** | **URI/URL** | | |
| 1 | XAPI | http://10.10.29.245:6001/api/department/data/single | | |
| 2 | PAPI | http://10.10.29.245:8002/esb/fdb/department/single | | |
| 3 | SAPI | http://10.10.29.245:7002/esb/kutumba/GetDepartment | | |
| 4 | Destination | https://kutumba.karnataka.gov.in/Testfidapi/GetBeneficiaryData | | |

* XAPI Invokes >> PAPI
* PAPI Invokes >> SAPI
* SAPI Invokes >> Destination Service
* Response from Destination Service is passed to the respective callers

# Input Output

### XAPI (Experience API)

|  |  |  |
| --- | --- | --- |
| Request | | |
| {  "deptId": 3,  "input": {  "BenID": "",  "RC\_Number": "MLVR00122746",  "Aadhar\_No": "",  "IsPhotoRequired": "0",  "Member\_ID": "",  "Request\_ID": "9999999999"  },  "method": "GetBeneficiaryData",  "creds":{  "client-id":"1234567",  "client-secret":"7654321"  }  } | | |
| Response | | |
| {  "StatusCode": 0,  "StatusText": "Sucess",  "Response\_ID": "13072021092840666319299",  "Request\_ID": "9999999999",  "ResultDataList": [  {  "MBR\_PENSION\_ID": "NULL",  "MBR\_PENSION\_SCHEME": "NULL",  "MBR\_FARMER\_CATEGORY": "NULL",  "MBR\_FARMER\_ID": "NULL",  "MBR\_LAND\_ACRE": "NULL",  "FAMILY\_ID": "MLVR00122366",  "MEMBER\_ID": "MLVR00122366\_0",  "FCS\_DISTRICT\_CODE": "1521",  "FCS\_DISTRICT\_NAME": "MANDYA",  "FCS\_GP\_CODE": "NULL",  "FCS\_GP\_NAME": "NULL",  "FCS\_TALUK\_CODE": "1521003",  "FCS\_TALUK\_NAME": "MALVALLI",  "FCS\_VILLAGE\_CODE": "1.521E+12",  "FCS\_VILLAGE\_NAME": "KALKUNI",  "LGD\_DISTRICT\_CODE": "544",  "LGD\_DISTRICT\_Name": "MANDYA",  "LGD\_TALUK\_CODE": "5552",  "LGD\_TALUK\_Name": "MALVALLI",  "LGD\_VILLAGE\_CODE": "NULL",  "LGD\_VILLAGE\_Name": "NULL",  "MBR\_AADHAR\_NO": "NULL",  "MBR\_ADDRESS": "??? ??????? (????) ???? ?? ????????? (??????)??????? ??????? ??/ ????? ??????",  "MBR\_DOB": "01-06-1961",  "MBR\_DOB1": "NULL",  "MBR\_GENDER": "MALE",  "MBR\_HASH\_AADHAR": "CE40AB8B20A8C39BA2ADEE0EB00FD34ECD9ABF8763777C5636F43557C6232F8E",  "MBR\_MOBILE\_NO": "",  "MBR\_PINCODE": "NULL",  "MBR\_RCAREA": "NULL",  "MEMBER\_ID1": "1",  "MEMBER\_NAME\_ENG": "N.Mllaiah (Rangu)",  "MEMBER\_NAME\_KAN": "㼿‿㼿㼿㼿‿㼨㼿⤿",  "RC\_NUMBER": "MLVR00122746",  "RC\_STATUS": "A",  "RC\_TYPE": "APL",  "RELATION\_NAME": "Family Head",  "MBR\_GENDER1": "M",  "MBR\_EKYCSTATUS": "NULL",  "MBR\_HOUSING\_ID": "NULL",  "MBR\_HOUSING\_SCHEME": "NULL",  "MBR\_ANGANWADI\_ID": "NULL",  "MBR\_POURER\_ID": "NULL",  "MBR\_CASTE": "???????",  "MBR\_CASTE\_CATEGORY\_ID": "NULL",  "MBR\_CASTE\_RD\_NO": "RD2039284004092",  "MBR\_CASTE\_CATEGORY": "Other",  "MBR\_CASTE1": "Other",  "MBR\_CENSES\_CASTE\_GROUP": "NULL",  "MBR\_CENSES\_DISABILITY\_CODE": "NULL",  "MBR\_CENSES\_EDU\_CODE": "NULL",  "MBR\_CENSES\_ID": "NULL",  "MBR\_CENSES\_OCCUPATION": "NULL",  "MBR\_Disability\_Applicant\_No": "NULL",  "MBR\_HEALTH\_ID": "NULL",  "MBR\_FAMILY\_INCOME": "NULL",  "MBR\_INCOME": "NULL",  "MBR\_INCOME\_ISSUEING\_DATE": "NULL",  "MBR\_INCOME\_RD\_NO": "NULL",  "MBR\_PM\_Kisan\_ID": "NULL",  "MBR\_LABOUR\_ID": "NULL",  "MBR\_MGNREGA\_BPL\_FAMILY": "NULL",  "MBR\_MGNREGA\_BPL\_FAMILY\_NO": "NULL",  "MBR\_MGNREGA\_WORKER\_STATUS": "NULL",  "MBR\_NPR\_FATHER\_NAME": "?? ?????????",  "MBR\_NPR\_MEMBER\_STATUS": "NULL",  "MBR\_NPR\_MOTHER\_NAME": "?? ??????",  "MBR\_NPR\_SPOUSE\_NAME": "NULL",  "MBR\_EDUCATION\_ID": "NULL",  "MBR\_SATS\_EDUCATION\_LEVEL": "NULL",  "MBR\_SCHOLARSHIP": "NULL",  "MBR\_SCHOLARSHIP\_PAID\_STATUS": "NULL",  "MBR\_STUDENT\_MOBILE\_NO": "啎䱌",  "IS\_MBR\_SCHOLARSHIP\_APPLIED": "NULL",  "IS\_MBR\_SCHOLARSHIP\_PAID\_STATUS": "NULL",  "HasedResultValue": "+qJiKlt7dcdWs5voqwPpgnYrCz6sYw4M/u1uBF0qObE="  }  ]  }  **Sample 1**   * As is Error Propagation from down stream service (This means whatever the destination service throws)   **Sampe 2**  {  "httpCode": "403",  "errorType": {  "parentErrorType": {  "parentErrorType": **null**,  "identifier": "ANY",  "namespace": "MULE"  },  "identifier": "INCORRECT\_CREDS",  "namespace": "KUTUMBA-CONSUMER-SYS"  },  "error": "KUTUMBA API Authentication Failure : Client Id and Client Secret does not match !",  "correlation": "7889e840-e3bd-11eb-b574-02429ea494eb"  } | | |
| Error | | |
|  | | |

### PAPI (Process API)

|  |  |  |
| --- | --- | --- |
| Request | | |
| {  "deptId": 3,  "input": {  "BenID": "",  "RC\_Number": "MLVR00122746",  "Aadhar\_No": "",  "IsPhotoRequired": "0",  "Member\_ID": "",  "Request\_ID": "9999999999"  },  "method": "GetBeneficiaryData",  "creds":{  "client-id":"1234567",  "client-secret":"7654321"  }  } | | |
| Response | | |
| {  "StatusCode": 0,  "StatusText": "Sucess",  "Response\_ID": "13072021092840666319299",  "Request\_ID": "9999999999",  "ResultDataList": [  {  "MBR\_PENSION\_ID": "NULL",  "MBR\_PENSION\_SCHEME": "NULL",  "MBR\_FARMER\_CATEGORY": "NULL",  "MBR\_FARMER\_ID": "NULL",  "MBR\_LAND\_ACRE": "NULL",  "FAMILY\_ID": "MLVR00122366",  "MEMBER\_ID": "MLVR00122366\_0",  "FCS\_DISTRICT\_CODE": "1521",  "FCS\_DISTRICT\_NAME": "MANDYA",  "FCS\_GP\_CODE": "NULL",  "FCS\_GP\_NAME": "NULL",  "FCS\_TALUK\_CODE": "1521003",  "FCS\_TALUK\_NAME": "MALVALLI",  "FCS\_VILLAGE\_CODE": "1.521E+12",  "FCS\_VILLAGE\_NAME": "KALKUNI",  "LGD\_DISTRICT\_CODE": "544",  "LGD\_DISTRICT\_Name": "MANDYA",  "LGD\_TALUK\_CODE": "5552",  "LGD\_TALUK\_Name": "MALVALLI",  "LGD\_VILLAGE\_CODE": "NULL",  "LGD\_VILLAGE\_Name": "NULL",  "MBR\_AADHAR\_NO": "NULL",  "MBR\_ADDRESS": "??? ??????? (????) ???? ?? ????????? (??????)??????? ??????? ??/ ????? ??????",  "MBR\_DOB": "01-06-1961",  "MBR\_DOB1": "NULL",  "MBR\_GENDER": "MALE",  "MBR\_HASH\_AADHAR": "CE40AB8B20A8C39BA2ADEE0EB00FD34ECD9ABF8763777C5636F43557C6232F8E",  "MBR\_MOBILE\_NO": "",  "MBR\_PINCODE": "NULL",  "MBR\_RCAREA": "NULL",  "MEMBER\_ID1": "1",  "MEMBER\_NAME\_ENG": "N.Mllaiah (Rangu)",  "MEMBER\_NAME\_KAN": "㼿‿㼿㼿㼿‿㼨㼿⤿",  "RC\_NUMBER": "MLVR00122746",  "RC\_STATUS": "A",  "RC\_TYPE": "APL",  "RELATION\_NAME": "Family Head",  "MBR\_GENDER1": "M",  "MBR\_EKYCSTATUS": "NULL",  "MBR\_HOUSING\_ID": "NULL",  "MBR\_HOUSING\_SCHEME": "NULL",  "MBR\_ANGANWADI\_ID": "NULL",  "MBR\_POURER\_ID": "NULL",  "MBR\_CASTE": "???????",  "MBR\_CASTE\_CATEGORY\_ID": "NULL",  "MBR\_CASTE\_RD\_NO": "RD2039284004092",  "MBR\_CASTE\_CATEGORY": "Other",  "MBR\_CASTE1": "Other",  "MBR\_CENSES\_CASTE\_GROUP": "NULL",  "MBR\_CENSES\_DISABILITY\_CODE": "NULL",  "MBR\_CENSES\_EDU\_CODE": "NULL",  "MBR\_CENSES\_ID": "NULL",  "MBR\_CENSES\_OCCUPATION": "NULL",  "MBR\_Disability\_Applicant\_No": "NULL",  "MBR\_HEALTH\_ID": "NULL",  "MBR\_FAMILY\_INCOME": "NULL",  "MBR\_INCOME": "NULL",  "MBR\_INCOME\_ISSUEING\_DATE": "NULL",  "MBR\_INCOME\_RD\_NO": "NULL",  "MBR\_PM\_Kisan\_ID": "NULL",  "MBR\_LABOUR\_ID": "NULL",  "MBR\_MGNREGA\_BPL\_FAMILY": "NULL",  "MBR\_MGNREGA\_BPL\_FAMILY\_NO": "NULL",  "MBR\_MGNREGA\_WORKER\_STATUS": "NULL",  "MBR\_NPR\_FATHER\_NAME": "?? ?????????",  "MBR\_NPR\_MEMBER\_STATUS": "NULL",  "MBR\_NPR\_MOTHER\_NAME": "?? ??????",  "MBR\_NPR\_SPOUSE\_NAME": "NULL",  "MBR\_EDUCATION\_ID": "NULL",  "MBR\_SATS\_EDUCATION\_LEVEL": "NULL",  "MBR\_SCHOLARSHIP": "NULL",  "MBR\_SCHOLARSHIP\_PAID\_STATUS": "NULL",  "MBR\_STUDENT\_MOBILE\_NO": "啎䱌",  "IS\_MBR\_SCHOLARSHIP\_APPLIED": "NULL",  "IS\_MBR\_SCHOLARSHIP\_PAID\_STATUS": "NULL",  "HasedResultValue": "+qJiKlt7dcdWs5voqwPpgnYrCz6sYw4M/u1uBF0qObE="  }  ]  } | | |
| Error | | |
| **Sample 1**   * As is Error Propagation from down stream service (This means whatever the destination service throws)   **Sampe 2**  {  "httpCode": "403",  "errorType": {  "parentErrorType": {  "parentErrorType": **null**,  "identifier": "ANY",  "namespace": "MULE"  },  "identifier": "INCORRECT\_CREDS",  "namespace": "KUTUMBA-CONSUMER-SYS"  },  "error": "KUTUMBA API Authentication Failure : Client Id and Client Secret does not match !",  "correlation": "7889e840-e3bd-11eb-b574-02429ea494eb"  } | | |

### SAPI (System API)

|  |  |  |
| --- | --- | --- |
| Request | | |
| {  "DeptID": "",  "BenID": "",  "RC\_Number": "MLVR00122746",  "Aadhar\_No": "",  "ClientCode": "1963936142",  "HashedMac": "keMGTnm8IhYoneDfgcQqC0bsJS38LoOYM39iy/CP9wM=",  "APIVersion": "1.0",  "IsPhotoRequired": "0",  "Member\_ID": "",  "Request\_ID": "9999999999"  } | | |
| Response | | |
| {  "StatusCode": 0,  "StatusText": "Sucess",  "Response\_ID": "13072021092840666319299",  "Request\_ID": "9999999999",  "ResultDataList": [  {  "MBR\_PENSION\_ID": "NULL",  "MBR\_PENSION\_SCHEME": "NULL",  "MBR\_FARMER\_CATEGORY": "NULL",  "MBR\_FARMER\_ID": "NULL",  "MBR\_LAND\_ACRE": "NULL",  "FAMILY\_ID": "MLVR00122366",  "MEMBER\_ID": "MLVR00122366\_0",  "FCS\_DISTRICT\_CODE": "1521",  "FCS\_DISTRICT\_NAME": "MANDYA",  "FCS\_GP\_CODE": "NULL",  "FCS\_GP\_NAME": "NULL",  "FCS\_TALUK\_CODE": "1521003",  "FCS\_TALUK\_NAME": "MALVALLI",  "FCS\_VILLAGE\_CODE": "1.521E+12",  "FCS\_VILLAGE\_NAME": "KALKUNI",  "LGD\_DISTRICT\_CODE": "544",  "LGD\_DISTRICT\_Name": "MANDYA",  "LGD\_TALUK\_CODE": "5552",  "LGD\_TALUK\_Name": "MALVALLI",  "LGD\_VILLAGE\_CODE": "NULL",  "LGD\_VILLAGE\_Name": "NULL",  "MBR\_AADHAR\_NO": "NULL",  "MBR\_ADDRESS": "??? ??????? (????) ???? ?? ????????? (??????)??????? ??????? ??/ ????? ??????",  "MBR\_DOB": "01-06-1961",  "MBR\_DOB1": "NULL",  "MBR\_GENDER": "MALE",  "MBR\_HASH\_AADHAR": "CE40AB8B20A8C39BA2ADEE0EB00FD34ECD9ABF8763777C5636F43557C6232F8E",  "MBR\_MOBILE\_NO": "",  "MBR\_PINCODE": "NULL",  "MBR\_RCAREA": "NULL",  "MEMBER\_ID1": "1",  "MEMBER\_NAME\_ENG": "N.Mllaiah (Rangu)",  "MEMBER\_NAME\_KAN": "㼿‿㼿㼿㼿‿㼨㼿⤿",  "RC\_NUMBER": "MLVR00122746",  "RC\_STATUS": "A",  "RC\_TYPE": "APL",  "RELATION\_NAME": "Family Head",  "MBR\_GENDER1": "M",  "MBR\_EKYCSTATUS": "NULL",  "MBR\_HOUSING\_ID": "NULL",  "MBR\_HOUSING\_SCHEME": "NULL",  "MBR\_ANGANWADI\_ID": "NULL",  "MBR\_POURER\_ID": "NULL",  "MBR\_CASTE": "???????",  "MBR\_CASTE\_CATEGORY\_ID": "NULL",  "MBR\_CASTE\_RD\_NO": "RD2039284004092",  "MBR\_CASTE\_CATEGORY": "Other",  "MBR\_CASTE1": "Other",  "MBR\_CENSES\_CASTE\_GROUP": "NULL",  "MBR\_CENSES\_DISABILITY\_CODE": "NULL",  "MBR\_CENSES\_EDU\_CODE": "NULL",  "MBR\_CENSES\_ID": "NULL",  "MBR\_CENSES\_OCCUPATION": "NULL",  "MBR\_Disability\_Applicant\_No": "NULL",  "MBR\_HEALTH\_ID": "NULL",  "MBR\_FAMILY\_INCOME": "NULL",  "MBR\_INCOME": "NULL",  "MBR\_INCOME\_ISSUEING\_DATE": "NULL",  "MBR\_INCOME\_RD\_NO": "NULL",  "MBR\_PM\_Kisan\_ID": "NULL",  "MBR\_LABOUR\_ID": "NULL",  "MBR\_MGNREGA\_BPL\_FAMILY": "NULL",  "MBR\_MGNREGA\_BPL\_FAMILY\_NO": "NULL",  "MBR\_MGNREGA\_WORKER\_STATUS": "NULL",  "MBR\_NPR\_FATHER\_NAME": "?? ?????????",  "MBR\_NPR\_MEMBER\_STATUS": "NULL",  "MBR\_NPR\_MOTHER\_NAME": "?? ??????",  "MBR\_NPR\_SPOUSE\_NAME": "NULL",  "MBR\_EDUCATION\_ID": "NULL",  "MBR\_SATS\_EDUCATION\_LEVEL": "NULL",  "MBR\_SCHOLARSHIP": "NULL",  "MBR\_SCHOLARSHIP\_PAID\_STATUS": "NULL",  "MBR\_STUDENT\_MOBILE\_NO": "啎䱌",  "IS\_MBR\_SCHOLARSHIP\_APPLIED": "NULL",  "IS\_MBR\_SCHOLARSHIP\_PAID\_STATUS": "NULL",  "HasedResultValue": "+qJiKlt7dcdWs5voqwPpgnYrCz6sYw4M/u1uBF0qObE="  }  ]  } | | |
| Error | | |
| **Sample 1**   * As is Error Propagation from down stream service (This means whatever the destination service throws) | | |