

राजस्थान सरकार
वित्त (कोष एवं लेखा) विभाग

क्रमांक: एफ.5(थ-75)डीटीए/IFMS/e-GRAS-28/RMS/ 5770- 87

दिनांक 11/12/2025

1. सचिव, विधानसभा सचिवालय, जयपुर
2. रजिस्ट्रार, राजस्थान हाईकोर्ट, जयपुर
3. आयुक्त, परिवहन विभाग, जयपुर
4. आयुक्त, सूचना प्रौद्योगिकी एवं संचार विभाग, जयपुर
5. आयुक्त, आबकारी विभाग, राज., उदयपुर
6. आयुक्त, श्रम विभाग, जयपुर
7. आयुक्त, वाणिज्यिक कर विभाग, जयपुर
8. सचिव, लोक सेवा आयोग, अजमेर
9. सचिव, राजस्थान राजस्व बोर्ड, अजमेर
10. अतिरिक्त महानिदेशक, यातायात पुलिस, पुलिस विभाग, जयपुर
11. महानिरीक्षक, पंजीयन एवं मुद्रांक विभाग, अजमेर
12. मुख्य निरीक्षक, फैंक्ट्री एण्ड बॉयलर्स विभाग, जयपुर
13. निदेशक, शिक्षा विभाग, जयपुर
14. निदेशक, खान एवं भूविज्ञान विभाग, उदयपुर
15. निदेशक, राज्य बीमा एवं प्रावधानी निधि विभाग, जयपुर
16. निदेशक, उपभोक्ता मामले, जयपुर
17. निदेशक, माध्यमिक शिक्षा विभाग, बीकानेर
18. वित्तीय सलाहकार, सिविल डिफेन्स एण्ड होमगार्ड विभाग, जयपुर

विषय:- Revenue Management System (RMS) के साथ विभागीय एप्लीकेशन्स का इन्टीग्रेशन कराने बाबत।

महोदय,

उपरोक्त विषयान्तर्गत आपके विभाग की एप्लीकेशन्स राज्य सरकार के राजस्व संग्रहण के लिए ई-ग्रास से इन्टीग्रेटेड है (सूची संलग्न)। वर्तमान में IFMS 3.0 के अन्तर्गत Revenue Management System (RMS) विकसित किया जा रहा है जिसमें आपके विभाग की एप्लीकेशन्स का इन्टीग्रेशन भी किया जाना है।

यह भी उल्लेखनीय है कि वित्त विभाग द्वारा RMS को अतिशीघ्र लाईव किए जाने हेतु निर्देशित किया गया है। RMS का सुचारु संचालन प्रारम्भ होने पर ई-ग्रास पर राजस्व संग्रहण का कार्य नहीं किया जाएगा। अतः विभागीय राजस्व के निर्बाध संग्रहण के लिए IFMS 3.0 पर विभागीय एप्लीकेशन्स का इन्टीग्रेशन अत्यन्त आवश्यक है।

अतः IFMS 3.0 के साथ इन्टीग्रेशन के लिए AIRF (प्रति संलग्न) प्रेषित कर, आपके विभाग की एप्लीकेशन्स से संबंधित तकनीकी अधिकारी को IFMS 3.0 की तकनीकी टीम से समन्वय कर इन्टीग्रेशन की कार्यवाही पूर्ण कराने के लिए वित्त भवन, डी-ब्लॉक, प्रथम तल स्थित मीटिंग हॉल में नियत समय पर उपस्थिति देने हेतु निर्देशित कराने का श्रम करें।

विभागों की सुविधा के लिए इन्टीग्रेशन हेतु दिनांकवार समय सारणी संलग्न कर प्रेषित है निर्धारित दिनांक पर आपके विभाग की तकनीकी टीम को संलग्न इन्टीग्रेशन डॉक्यूमेन्ट के अनुसार आवश्यक तैयारी के साथ इन्टीग्रेशन की कार्यवाही हेतु भिजवाने का अनुरोध है। अतः इसे प्राथमिकता प्रदान करें।

संलग्न:- उपरोक्तानुसार

भवदीय
11/12/2025
(संध्या शर्मा)
निदेशक एवं पदेन
संयुक्त शासन सचिव

ए-ब्लॉक, वित्त भवन, ज्योति नगर, जनपथ, जयपुर

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क्रमांक: एफ.5(थ-75)डीटीए/IFMS/e-GRAS-28/RMS/5788-91 दिनांक 11/12/2025

प्रतिलिपि: निम्न को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित है :-

1. श्री मुकेश शर्मा, वरिष्ठ निदेशक (आई.टी.), एन.आई.सी. वित्त भवन, जयपुर।
2. संयुक्त निदेशक (कम्प्यूटर सैल), वित्त विभाग, सचिवालय, जयपुर को वित्त विभाग की साईट पर अपलोड करने हेतु।
3. कोषाधिकारी, ई-कोषालय, वित्त भवन, जयपुर।
4. श्री प्रियंक कानूनगों, PWC टीम।



अतिरिक्त निदेशक एवं पदेन
परियोजना निदेशक (IFMS)

S.No.	Department	Department Application	Date
1	Factory and Boilers	https://rajfab.rajasthan.gov.in	12.12.2025
2	Civil Defence and Home Guard Department-PSARA	https://psara.gov.in	12.12.2025
3	CTD	http://rajtax.gov.in	12.12.2025
4	RPSC	https://rpsc.rajasthan.gov.in	12.12.2025
5	Transport	https://sarathi.parivahan.gov.in	15.12.2025
6		http://Vahan.raj.nic.in	15.12.2025
7		https://Vahan.parivahan.gov.in	15.12.2025
8	Stamps	https://stamps.raj.nic.in	15.12.2025
9	Mines	https://mines.rajasthan.gov.in	16.12.2025
10		http://www.dmgoms.mines.rajasthan.gov.in	16.12.2025
11	DOIT	https://emitraapp.rajasthan.gov.in	16.12.2025
12	Excise	https://excise.rajasthan.gov.in	17.12.2025
13		https://rajexciselottery.org	17.12.2025
14		https://eauction.rajasthan.gov.in	17.12.2025
15		https://iems.rajasthan.gov.in	17.12.2025
16	Revenue Board	https://apnakhata.rajasthan.gov.in	19.12.2025
17	Court	https://pay.ecourts.gov.in	22.12.2025
18	Police	Echallan app police WEBservice Consume TrafficePolice	22.12.2025
19	High Court	https://hcraj.nic.in	22.12.2025
20	Labour Department	https://swcs.rajasthan.gov.in	23.12.2025
21	Consumer Court	https://edaakhil.nic.in	23.12.2025
22	Revenue Dept	https://epanjiyancitizen.rajasthan.gov.in	24.12.2025
23	Animal Husbandry	https://rajnoc.rajasthan.gov.in	26.12.2025
24	SIPF	https://sipfportal.rajasthan.gov.in	29.12.2025
25		http://app.sipfportal.rajasthan.gov.in	29.12.2025
26	EDUCTION	https://gyansankalp.nic.in	30.12.2025
27	Secondary Education Department-Service	https://serviceonline.gov.in	30.12.2025
28	Vidhan Sabha	https://assembly.rajasthan.gov.in	31.12.2025

Contact person from RMS technical team : Shri Priyank Kanungo, Consultant (PWC)

**Government of Rajasthan
Finance (Treasuries & Accounts) Department**

Ref No.: F.5(Th-75) DTA/IFMS 3.0/ 2320

Date: 09/7/2025

To
All Heads of Departments,

**Subject: Regarding Integration of Departmental Applications with IFMS
3.0**

Reference : F.5 (TH-75) DTA/ IFMS 2.0/ 2069-2218 dated 28-04-2017

Vide above referred letter, instructions were issued for integration of Departmental Portals with IFMS 2.0 . Now, processes have been evolved at IFMS 3.0 under core Disbursement Engine for integration related to payments of Departmental Portals.

In this reference, a new **Application Integration Request Form** is enclosed at **Annexure 'A'** for your ready reference. Accordingly, it is desired that proposals for integration of Departmental applications/portals with IFMS3.0 must be submitted to the **Director and Ex-Officio Joint Secretary, Finance (Treasuries & Accounts)** in the new **Application Integration Request Form**.

Enclosure: As mentioned above



Secretary, Finance (Budget)

Ref No.: F.5(Th-75) DTA/IFMS 3.0/ 2321-23

Date: 09/7/2025

Copy forwarded for information and necessary action to:

1. Senior Director (IT), NIC, Government Secretariat, Jaipur
2. Joint Director, Finance (Computer Cell), Finance Department, Government Secretariat, Jaipur for uploading on the Finance Department website
3. PMU/Oracle Team


Joint Secretary, Finance
(बृजेश किशोर शर्मा)
निदेशक एवं पदेन संयुक्त शासन सचिव
निदेशालय कोष एवं लेखा, जयपुर

Integrated Financial Management System (IFMS)

Application Integration Request Form

(Separate Form should be filled for each request)

Department Reference No.:

Date:

Name of Department:

Type of Integration: ☐ API Based or ☐ SFTP

Application Details:

1. Name of Application :
2. Software Environment :
3. Parameter to be Integrated :
4. Size of Data (Approx.) :
5. Frequency of Data Exchange :
6. API consuming/exposing :
7. Authentication & Authorization (Client ID/Secret, IP Whitelisting, OAuth 2.0, JWT):
8. Security Measures: Encryption protocols (HTTPS, AES, RSA) CORS policy :
9. Error Handling and Response Codes :
10. Data Validation :
11. API versioning structure (e.g., /v1/, /v2/) :
12. UAT/Testing Requirements (sample test cases) :
13. Dependencies and Constraints :

Mention IP Detail(s) as under –

Source IP (Public):

Port:

Technical Team In-Charge from Department:

Name:

e-mail ID:

Designation:

Mobile No.:

Name:

Signature

Designation:

(Head of Department)

Approved By:

Signature

Head of Nodal Department (IFMS)

Note: - User Details (Credentials) should be shared separately (if required).

Integrated Financial Management System (IFMS)

Application Integration Request Form

(Separate Form should be filled for each request)

Integration Design Document Checklist:

Details of Parameters :

Security Requirements :

Data Exchange Formats :

Test Files contains use cases :

Data File Volumes :

Data Retention policy :

Signature
(Department Technical Team In-Charge)

Signature
OIC (IFMS)

RMS - Department Integration Guide

1. Introduction

This document provides department integration guide for the IFMS Rajasthan Department → GRN workflow. It includes AES encryption rules, checksum logic, example plaintext, final encrypted JSON, and a full Java reference implementation.

2. Workflow Overview

STEP-1: Department sends encrypted encData + checksum to RMS provided API and gets the redirection URL for next step.

STEP-2: After payment mode selection on RMS page, department clicks on continue button to generate GRN.

3. API Endpoints (UAT)

Token Generation (Step-1):

```
POST
https://ifmstest.rajasthan.gov.in/oras/echallan/v1.0/generateGrnTokenForOtherDept
```

4. AES Encryption Specification

```
Algorithm: AES/CBC/PKCS5Padding
Key (UAT): X7g!A9s@T3p#L6v$
Key16 = First 16 bytes of UTF-8(AES_KEY)
IV = Key16
Ciphertext = Base64 Standard Encoding
Checksum = md5( plaintext + '|' + AES_KEY ) (lowercase hex 32 chars)
```

5. Example Input (Raw Legacy Payload)

Below is an example of payload as received from a department. This raw input includes line breaks, spaces, URL encoded values etc. The normalizeLegacy() function converts this into a clean pipe-separated string.

Raw Input:

AUIN=59983720|Head_Name1=040100800500100000|Head_Amount1=657.00|
Head_Name2=040100800020100000|Head_Amount2=83.00|Head_Name3=04010080020300102|Head_Amount3=34.00|Head_Name4=040100800500200000|Head_Amount4=64.00|Head_Name5=0|
Head_Amount5=0.00|Head_Name6=0|Head_Amount6=0.00|Head_Name7=0|Head_Amount7=0.00|Head_Name8=0|Head_Amount8=0.00|Head_Name9=0|Head_Amount9=0.00|RemitterName=Egras Ifms |Discount = 0|TotalAmount=826.00|
MerchantCode= 5003|PaymentMode=N|REGTINNO=jp1200098|Location=TreasuryCode|DistrictCode=10|OfficeCode=102|DepartmentCode=120|
FromDate=2014/02/05|ToDate=2014/02/05|Address=C-Schme Jaipur|PIN=302005|
City=Jaipur| Remarks=SampleRemark |Filler=A|ChallanYear=2018
|Checksum = p9l4zzf%2fJN8%3d-hZF9OYW1lMT0wNDAXLTawLTgwMC01MC0wT

6. Normalized Plaintext (Final String Used for AES Encryption)

PLAINTEXT USED FOR ENCRYPTION:

AUIN=59983720|Head_Name1=040100800500100000|Head_Amount1=657.00|Head_Name2=040100800020100000|Head_Amount2=83.00|Head_Name3=04010080020300102|Head_Amount3=34.00|Head_Name4=040100800500200000|Head_Amount4=64.00|Head_Name5=0|Head_Amount5=0.00|Head_Name6=0|Head_Amount6=0.00|Head_Name7=0|Head_Amount7=0.00|Head_Name8=0|Head_Amount8=0.00|Head_Name9=0|Head_Amount9=0.00|RemitterName=Egras Ifms|Discount=0|TotalAmount=826.00|MerchantCode=5003|PaymentMode=N|REGTINNO=jp1200098|Location=TreasuryCode|DistrictCode=10|OfficeCode=102|DepartmentCode=120|FromDate=2014/02/05|ToDate=2014/02/05|Address=C-Schme Jaipur|PIN=302005|City=Jaipur|Remarks=SampleRemark|Filler=A|ChallanYear=2018

7. Resulting AES Encrypted Output (encData)

```
ujUBLCx+2kAS8vWVhC1AxD0wEa692WCh81Nofp7yUdaw+qjHUWgifZf4xVme2vTeHT0pc
D2zsW+h14W3GTnAC1lEOGpp+x/hlnmlokfV//iKEMiYKucrRlNOMrbrm10aa464P9YI6QE3k
FFU19mohrlRqrtsWB25qORgKa7SX2NOvxRuIWsfU2r6yCwHegkeBM4w2Nd1D1LCptTBl
58okbzdzt09JYhZzuvGUnc+tnbXpxltwkHpWvR6FfNCFvEydiC1MoH+st0sXWxQC6dZlCJ
mJLaYmk+pJkKvancEW2BOEppdPl9ZH7QF0OGKxtuhbqaPU7Rp7lGVh9zeEap+HdaDZ1
wd61HHcATc3wXLmVvqdOpbgQYlyYx1611DNuGex1MFqj938PW8EblfisYTibpYRpQMccq
1OJDf5Cp5HOohPt4ycCgHr5j4hlHj/sYl3qs2vvUjRc4Bv+pNxYHNpNdBY/zZf9iZYJ2p4V+SR
0dtBTQckZKG5aUQhemBRTVVBSBoGxAFzQ5gG2swM3Ukft2GjSByg7xYsD+ATP6DiVUOJ
Vv2HbBnAcFD6fGeuTOncBjG0UIK3EGrcas7CWrxJlKJl3wMaa7AefqBlEcK/WFPnDC0
Hdn9tFDpWg1c9i6Kq342ROYQIBOmtrtyCoSkztSxQifSY9CnY6PY6AqQC5N1gZBJuJ+5rH
N0Re4x0nPkY4+3W2bJ55Tt2r/Rsb8ZElx9zK6f6Zavfqel+p2MSvc/s4jveC9TR3HFM75m6iTy
EF588RscIK/sN6g5cR0vKP72XzTR2lID5kgYlQk2fad90ckuU4jRQXMVgjtisRzP80keEfsVO
yTDKGFnlwWAxa8f08pU1TbVOx7mksVpuLZMwvPYDqAPvuhVlBa5N/rs3pBLyh4lpwD36Q
JuxA==
```

8. Checksum Value (MD5)

b3e51e795c8b714faaa5c68ee565637e

9. Final JSON Payload to Send

```
{
  "encData": "<above encrypted string>",
  "checksum": "b3e51e795c8b714faaa5c68ee565637e"
}
```

10. cURL Example for Testing

```
curl -X POST
"https://ifmstest.rajasthan.gov.in/oras/echallan/oras/generateGrnTokenForOtherDept" \
-H "Content-Type: application/json" \
-d '{"encData": "<encrypted>","checksum": "b3e51e795c8b714faaa5c68ee565637e"}'
```

11. Java Program Used for Local Encryption Testing

The full Java code (PnbLocalEncryptor.java) used to generate the above encrypted package, including plaintext normalization, AES encryption, checksum, and round-trip verification.

NOTE: This ensures departments can replicate encryption exactly without ambiguity.

```

public static String encryptB64(String plain, String key) throws Exception {
    byte[] key16 = keyBytes16(key);

    SecretKeySpec skey = new SecretKeySpec(key16, "AES");
    IvParameterSpec iv = new IvParameterSpec(key16);

    Cipher cipher = Cipher.getInstance("AES/CBC/PKCS5Padding");
    cipher.init(Cipher.ENCRYPT_MODE, skey, iv);

    byte[] enc = cipher.doFinal(plain.getBytes(StandardCharsets.UTF_8));

    return Base64.getEncoder().encodeToString(enc);
}

public static String md5Hex(String s) {
    try {
        MessageDigest md5 = MessageDigest.getInstance("MD5");
        byte[] d = md5.digest(s.getBytes(StandardCharsets.UTF_8));
        StringBuilder sb = new StringBuilder(d.length * 2);
        for (byte b : d)
            sb.append(String.format("%02x", b));
        return sb.toString();
    } catch (Exception e) {
        throw new IllegalStateException("md5 failed", e);
    }
}

private static byte[] keyBytes16(String key) {
    byte[] src = key.getBytes(StandardCharsets.UTF_8);
    if (src.length == 16)
        return src;
}

```

```
byte[] k = new byte[16];  
System.arraycopy(src, 0, k, 0, Math.min(src.length, 16));  
return k;  
}
```

12. Decryption Verification

Decrypted output matches the plaintext exactly.

13. API Response

```
{  
  "appld": "5003",  
  "redirect_url":  
  "https://ifmstest.rajasthan.gov.in/orms/#/payment?token=82111251686727&appld=5003",  
  "status": {  
    "code": 200,  
    "message": "SUCCESS"  
  },  
  "token": "82111251686727"  
}
```

Users will be redirected to this URL, department has to write a logic that on success of this api, user should be redirected to this URL.