



VOL. 2 [Apr-Jun]

# TERABYTES

**2024**

**DIGITS**

The Quarterly Edition

This version of the newsletter has been dedicated to  
World Environment Day



Message from CISO

TINA  
PROJECT ISTAR  
PORTALS & WEBSITES

# MESSAGE from CISO.

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Prof. Joy Kuri  
Chief Information Security Officer

Ransomware attacks and data breaches are increasing day by day. <https://www.cm-alliance.com/cybersecurity-blog/major-cyber-attacks-data-breaches-ransomware-attacks-in-april-2024> provides chilling statistics showing the gravity of the problem worldwide. Cybercriminals have been targeting businesses for years and have now turned their attention to universities as well.

Many attacks begin with the stealthy compromise of a few user accounts and machines. Subsequently, attackers install backdoors and start using these machines as launchpads for further attacks.

In the prevailing situation, it is imperative that we improve our security posture. The first line of defence is the user. To make it harder for attackers to compromise an account, strong passwords and Multi-factor Authentication (MFA) are critical. Fortunately, the “Microsoft Authenticator” app provides a very convenient way to use MFA. I urge you to start using the Authenticator app, if you are not doing so already.



# **INSIDE THIS ISSUE**



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# TINA

## ACCOMPLISHMENTS

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- » To ensure that the network in the IDS Smart X building is robust, we have designed fault-tolerant 10Gbps links to all floors on both wings.
- » A cost optimization assessment of our Azure cloud environment was done, and we are happy to report that the resources are effectively utilized. And a reservation utilization score of 97% with Savings ~ Rs. 292K in the last 30 days. There are still some scope optimizations that we are working on.

### **Email team has:**

- » Migrated 146 accounts from the IISc domain to the CBR domain.
- » Created 210 email accounts.
- » Deleted 100+ accounts.
- » No-Dues approved for 250 Students.
- » Moved 1500+ students account to alum domain.
- » Identified 1050 accounts that did not have an expiry date and set an expiry date.
- » Updated account tenure of 152 staff as per the reliving memo from HR.
- » Extended validity for 700+ accounts.
- » 812 accounts of students who had withdrawn are identified and deleted.
- » 327 accounts were disabled and deleted as part of AD cleanup.
- » 2969 alum accounts that were never logged in are identified and disabled.
- » Identified 130+ accounts belonging to staff on FSID payroll, and deletion is ongoing.

# DEVELOPMENT IN-PROGRESS

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- » To enhance security, VPN access in its present form will only be made available to registered students and on-roll faculty and staff. For everyone else, a VPN service with limited access will be provided. Testing and implementation is ongoing.
- » To enhance security, access to iiscwlan with full access to internal resources will be available only to IISc staff and students. For visitors, vendors, and alumni, access to the Internet will be provided via the IIScGuest Wi-Fi network. Implementation is ongoing.
- » To improve the Wi-Fi infrastructure across campus, we have conducted surveys in SERC, CDS, Library, SDA, NSSC, Main Admin building, CAOS, MGMT, CSA, ICER, CPDM, CPDM to determine the number of Wi-Fi devices required. The tendering process is yet to begin.
- » To improve the cyber security of Azure resources, we are in the process of implementing an Azure firewall for all ingress and egress traffic.
- » To upgrade the complete network infrastructure in the Civil department we have conducted a survey and prepared the BoM. The tendering process is yet to begin.
- » To implement network infrastructure in the 1000 room boys hostel and 500 room girls hostels, we have created the device configuration details and shared them with CPWD. Deployment is pending.
- » To implement network infrastructure in the IDS Smart X building, we have created the device configuration details and shared them with the deployment vendor. Deployment is ongoing.
- » To provide CCTV coverage to Gymkhana grounds, we have conducted surveys to provide network connectivity and prepared the BoM. Procurement and implementation are ongoing.
- » To sync the data between SAP and active directory we are updating user attributes in active directory department as per SAP records and reporting back to ISTAR team whenever discrepancy in SAP data is found.
- » We are in the process of migrating 80+ accounts of the CeNSE department users to the vendor domain.

# PROJECT ISTAR

## LATEST UPDATES IN SAP

### **Purchase**

Purchase related configurations for two Departments under Division of Medical Sciences (1086 Department of Nephrology and 1087 ICPH) were completed and made live.

### **Hostel and Mess**

The logic for charging of Mess Amenities was corrected. For married student, Mess amenities will not be charged if they don't have any mess sign in for the billing month as well as no mess guest charges entry. In case either of mess sign in or mess guest entry is found for the billing month then mess amenities will be posted for them.

### **Finance & Accounting**

- » The functionality to generate Forex Forms for external thesis reviewers has been integrated with the "Payment of Honorarium" application. The Forex forms will be automatically generated from the SAP system.
- » In FICA, the automatic clearing (FPMA) application is corrected as required by business and moved to production. Now business can make the adjustment according to their need.
- » The validations with respect to house bank was removed to the ZFI\_AP report, ensuring that data appears correctly for all new house banks.

### **HR and Payroll**

- » Corrections have been implemented in the system to mandate Resume on Duty for the following leave types for employees –
  - Extraordinary Leave
  - Sabbatical Leave
  - Childcare Leave
  - Special Casual Leave
  - Combination Leave

- Half-pay leave
- Combination Leave
- Duty Leave (Visit Abroad)
- Vacation Leave
- Earned Leave
- Commuted Leave
- Maternity and Paternity Leave

- » The summer months May, June, and July are intended for vacation leave. Previously, the staff was applying the other leaves rather than the vacation leave. To combat this, the validation has been developed and moved to production, which states that only the vacation leave must be applied in the summer months.
- » Employees can update their children's information via the personnel profile application. Previously, only one child's information could be updated, however, this has changed, and employees can now update all of their children's information at once.
- » All temporary employees of S3 and S4 payroll areas have been provided the Form 16 and Payslip tiles.

### **SLcM**

- » ABC ID and Blood Group data of the students will now onwards be ported from Admission Portal to SAP.
- » Change of Scholarship functionality has been moved to production which helps in updating the change of student scholarship scheme from present funding agency to other funding agency through a workflow process.
- » Payment of Honorarium functionality has been implemented in SAP which helps in automating the Honorarium payment to Thesis Examiners.

- » Confirmation of Provisional Admission of students CR has been implemented in SAP which confirm the admission of students through a Workflow process.
- » Leave Details of the student has been added in the UG summary sheet.
- » Course-Instructor Feedback has been enabled for summer terms.
- » A program has been developed to upload ABC ID of the student, which is crucial for the NAD Report.

## DEVELOPMENT IN-PROGRESS

| SAP Module                              | Area of Development | Changes   |
|---|---------------------|---|
| Treasury and Risk Management (SAP TRM)  | Investments         | <ol style="list-style-type: none"> <li>1. Changes in accounting entry of TDS on interest and dividends</li> <li>2. Configuration of TCS and TDS on dividend.</li> </ol> |
| HR and Payroll (SAP HCM)                | Temporary employees | Rehire Option   |
| Treasury and Risk Management (SAP TRM)  | Investment Register | Corrections to investment Register  |
| Student Lifecycle Management (SAP SLcM) | Academic Structure  | Updates in Academic Structure   |
| Purchase and Stores (SAP MM)            | Purchase Process    | Simplification of Purchasing and Finance SAP Transactions   |
| Finance and Controlling (SAP FICO)      | Accounts Payable    | Validation on Capital WBS and CPDA  |

# PORTALS & WEBSITES

## ACCOMPLISHMENTS

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### **Admission Management System (AMS) Launched AMS for 2024 Admissions.**

- » Introduced MTech Selection process with multiple waiting list operation.
- » Implemented Admission Fee payment report for FnA
- » Technical Support

### **Conference websites integration with Receipts portal**

- » ISSS International Conference on Micro, Nano and Smart Systems IC -MNSS 2024
- » Course Design in OBE and NBA Framework
- » Structure Function and Dynamics of Biomembranes

### **Revamping of AMS**

- » Technical Stack Discussion & Finalisation
- » The review of Admin Portal SRS document is in progress.

### **Receipts portal**

- » Integration with Auditorium booking portal
- » Integration with Transcript verification request portal
- » Reorganised source code in MVC architecture.
- » Technical Support

### **Integration with conference/seminar sites**

- » ISSS International Conference on Micro, Nano and Smart Systems IC -MNSS 2024
- » Course Design in OBE and NBA Framework
- » Structure Function and Dynamics of Bio membranes
- » Summer school on optics and photonics 2024
- » Conference on IISc sustainability summit
- » Payment API for CCE course payment from students`



## **Email Support Portal**

- » Introduced new screen for requesting VPN Account
- » Reorganised source code in MVC architecture.

## **Auditorium Booking Portal**

Released for UAT

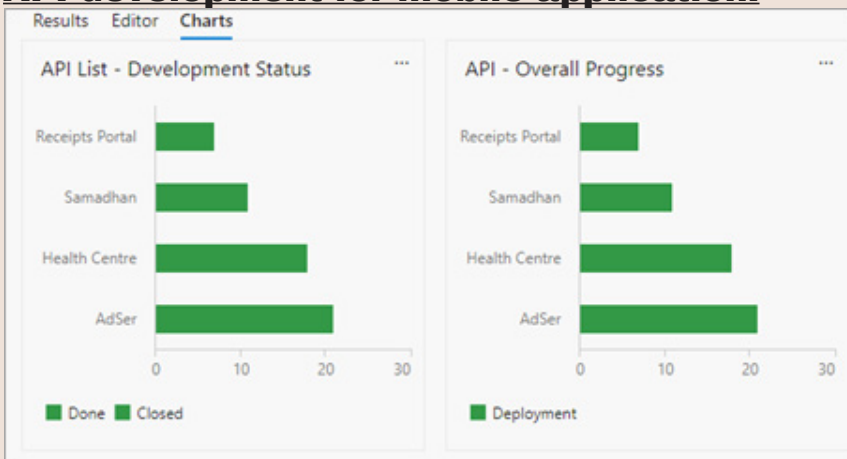
## **ODAA PM Portal**

Go Live

## **Thesis Examiners' Bank Account Portal**

Go-Live & Enhancements

## **API development for mobile application:**



## **New Websites**

- » Portal for receiving requests for verification and receipt of academic documents
- » SPCOM 2024
- » 6th Biomembranes Symposium 2024
- » IC-MNSS 2024
- » Open Basic Education Workshop 2024
- » Asian Engineering Deans' Summit 2024

## **Azure**

- » Created AD-APP for medical school recruitment and multiple conferences.
- » Solved KIAC site access issues, CSP firewall policies, and Azure backup failure alerts.
- » Managed SSL certificate updates for multiple domains and resolved SSL issues at nginx server of library etd server.
- » Deleted old CSIC server resources, idle snapshots, and exchanged unused reservations for existing VMs.
- » Designed Azure infrastructure for admission revamping, integrated ACR with AKS for I-STEM, and implemented Azure Firewall with Microsoft.

# SOCIAL EVENTS

**“ Concerning the reduction of solid waste, do you recycle? Could you give us a few tips?”**

*We can use any amazon or Flipkart shoe boxes for storing any kind of household items.*

*We can use old news papers for packing or to clean windows at home.*

*- Himabindu M R*

*I carry my own filled in water bottles and don't consume more and more plastic water bottles.*

*I use paper plates banana leaves paper cups and other easily decomposable items instead of plastic plates.*

*- Naaraayani*

*Buy less package products, Get own shopping bags (made of cloth/ recycled material).*

*Repurpose glass, plastic or cardboard containers also convert old sheets, towels or clothes into wash rags.*

*- Supriya Shivanand Satihal*



# “Embracing Diversity : A Unity Marathon”

Ms. Naaraayani

Ms. Himabindu M R

Mr. Punith V

Mr. Puneeth Raj V from DIGITS took part in the Institute’s event with great enthusiasm.

Previous issue:  
CRISS CROSS - PUZZLE answers -  
1. TINA  
2. ISTAR  
3. ADSER  
4. DIGITS  
5. TEAMS  
6. WEBSITE  
7. CREDENTIALS  
8. INTRANET  
9. SAMADHAN  
10. ADOBE

The right time to be sustainable and responsible towards  
environment might have been 20 years ago.

The second right time is now.

## TEAM ZINE

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