

# IOT Mainframe Services - 2023

## Who We Are:

Indiana Office of Technology – A seven-member team responsible for maintaining high performance, extremely reliable IBM z System operation to its customers on a 24x7 basis. This team ensures excellent service, daily, for processing millions of online transactions, plus thousands of batch processes which employ a wide variety of databases, programming languages and access methods each capable of interacting with various operating system platforms (UNIX, Linux, Windows, etc.) on various hardware platforms. The team ensures availability of complimentary or core services on the IBM z System to interact with external technology services which are popular, modern, and well known. The team ensures retention of value the State of Indiana has made over time which have produced reliable, highly matured application services. The team is responsible for maintenance of two separate operations on one machine in Indianapolis, one for the State of Indiana and another for Ball State University. Additionally, support is rendered to a disaster recovery site; a replicate IBM z System configuration of the operation in Indianapolis. To ensure operational continuity in disaster events, it is augmented by two additional, complete disk storage subsystems to maintain various states of replication of business operation in Indianapolis. Replication includes up-to-the-moment replication of real-time business operation of the local IBM z System.

An **important** aspect of IOT Mainframe Services is maintaining authentic access to resources, data, methods and any other variety of services rendered by the IBM z System.

Staffing is maintained through assignment of standard business hours. However, all members of staff are “on call” 24x7 for any incidents or events that require their attention. Additionally, as required, staffing at any hour or period is provided to minimize business impact during major maintenance or upgrade events.

**Our Mission:** Ensuring 24 x 7 Operations for IOT Data Center Systems Processing and Hardware.

The mission of Mainframe Services is to provide a high capacity, highly responsive and highly reliable computer operating platform capable of addressing and providing a wide variety of modern information technology services demanded by requirements of supplied by any state office or agency, or by Ball State University. This provision includes:

- Acquisition, implementation, configuration, and maintenance of:
  - ✓ High performance IBM z System hardware at a reasonable cost.
  - ✓ The IBM z Operating System at a reasonably current level.
  - ✓ Non-IBM software products to support the breadth of servers, services and users that connect to the IBM z System.

**Note:** This includes maintaining a highly secure operating platform, including regular and detailed review of activity to ensure authentic access to the IBM z System and the broad variety of resources provided by it.

- Regular perf evaluation and perf adjustments to continuously meet all business needs assigned to the IBM z System.
- Evaluation of new IBM and non-IBM technologies available to render services from the IBM z System.
- Participation in, development of, and reporting on any State of Indiana conceptual efforts for which the IBM z System may play a part.

## Department History:

The mainframe has been a part of the State on Indiana’s IT infrastructure since the late 1960’s. At one time, the mainframe was the dominant computing source for Indiana. At that time, the team that supported the mainframe was significant in size. The systems administration staff alone exceeded 20 members, and this was on top of the Production Control, JCL Techs and Operations staff. With the on-slot of distributed solutions, (Windows, Unix, Linux, etc.) many agencies opted to migrate off of the mainframe. BMV is an example. Still, the mainframe persists and large agencies applications such as ISETS, and the Dept. of Corrections OIS, JDS, all reside on the mainframe to this day.

## What We Do:

We provide:	24x7 Mainframe Systems Programming and Support
Application Support	Provide systems admin support for IBM’s Z series operating system, CA7, CA1, CA11, TSO, ISPF, SDSF, DB2, IMS, IDMS, DFHSM, AF-Operator, SMS, WLM, Q-RADAR, VTAM, CICS, Z-Secure.
Issue Support	Research/solve abended/ailed production processes. Tune system software for performance. Install, maintain, and support the applications listed above.
Project Support	Provide support for multiple state agencies.
Customer Service	First point of contact for all systems related support.
Consulting Services	Consult with agency in support of their applications running on the mainframe.

**Manager:** Lois Remick

**Our Metrics:**

We are required to have a 99.9% up time, and we meet this goal.

**Our Customers:**

Department of Correction (DOC)  
Department of FSSA, Division of Family Resources (DFR) SNAP  
Department of Child Services (DCS) ISETS Child Support  
Ivy Tech  
IOT Helpdesk  
Ball State University

**Our Budget:** \$5.7 Million

**Our Growth:**

Total <b>Monthly</b> Mainframe Transactions:	<b>19,137,419</b> (Formerly Product 5000)
Total <b>Projected Monthly</b> Mainframe Transaction:	<b>26,616,784</b> (Products 1206, 1207, 1208, 1209, 1210)

**2021 Projected Monthly Transaction Product Breakdown**

1206/Batch – 18,308,770  
1207/DB2 – 7,454,014  
1208/IMS – MOU  
1209/CICS – 763,000  
1210/IDMS – MOU

**Major Accomplishments:**

- Upgraded zSecure operation to zSecure 2.5
- Upgrade BlueZone Web RTE v10 to Host Operations for all State agencies
- Upgrade of DB2 to version 12 and implemented Enterprise Extender Encryption
- Upgrade COBAL 6.0
- Upgrade CICS 5.3
- Migrated AOS to an LPAR hosted on the IOT Mainframe.

**Current Projects:**

- Expand KPI Uptime analytics to exhibit CICS and IDMS uptime
- Replace CA7 enterprise scheduler with a new, modernized scheduling and automation engine.
- Working with Business Continuity and DR teams to integrate Mainframe and Operations for COOP planning.
- SSA Tibco migration off Mainframe to a Windows platform that impacts FSSA (DFR, VR), DCS.
- Switch AFO System Automation from Ops to Netview.