

Powering a State that Works

Governor Eric Holcomb Director and Chief Information Officer Tracy Barnes

IOT Services Catalog - Mainframe (IOT's Product Code Reference Manual)

Fiscal Year 2024

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Purpose

This document provides Indiana Office of Technology's (IOT) customers a central place to find information about its Mainframe services.

Contents

Mainframe related products contained in this document include:

- 1066 Scheduling Batch & Script Workloads
- 1092 Disk Storage Subsystem
- 1094 Tape Storage Subsystem
- 1206 Batch / System
- 1207 Relational Database DB2
- <u>1209</u> CICS

Note: There is a separate <u>document</u> for all other IOT provided services.

Service Responsibilities Definition

IOT has developed a RACI Matrix to help their Agency Partners, their Supplier Partners and IOT better understand their specific responsibilities for each of IOTs service offerings. Each service offering described in this document will contain the appropriate portion of that RACI Matrix. Please review that information before requesting the service to make sure you understand your specific responsibilities for the service.

RACI Codes:

The following are the Codes used to indicate specific responsibilities.

| Code | Roles | Definition |
|------|-----------------|--|
| R | Responsible | Person or People responsible for correct execution - getting |
| | nespensiere | the job done. |
| Α | Accountable | Person who has ownership of quality and the end result. |
| A | Accountable | Only one person can be accountable for each activity. |
| s | Course and loss | Person that provides additional resources to conduct the |
| З | Supportive | work or plays a supportive role in implementation. |
| | | People who are consulted and whose opinions are sought. |
| С | Consulted | They have involvement through input of knowledge and |
| | | information. |
| | | People who are kept up to date on progress. They receive |
| 1 | Informed | |
| | | information about process execution and quality. |
| V | Marifian | Person or group that checks whether the acceptance criteria |
| V | Verifies | have been met. |
| | c: 0// | Person who approves the decision and authorizes the product |
| 0 | Signs Off | handover. |

Example:

Responsibility R=Responsible, A=Accountable, S=Supportive, C=Consulted, I=Inform, V=Verifies, O=Sign-Off

| Service Name / Activities | Agency Partners | Supplier Partners | ЮТ |
|--|--------------------|----------------------|---------|
| Disk Storage Subsystem | | | |
| Provide a Computer with Network Access | RAVO | SC | SCI |
| Supply Available Storage Upon Demand. | ICVO | SC | RAS |
| Ensure High Performance Throughput at all Times. | IC | SC | RASIVO |
| Provide recoverability/restoration of disk files | IC | SC | RASIVO |
| Provide disaster recovery of Disk Storage Subsystem | IC | SC | RASIVO |
| Request changes to access control for Disk Resources | RAVO | SC | SCI |
| Manage access control to Disk resources | SCIVO | SC | RAS |
| Maintain hardware reliability and current microcode levels | IC | RSC | RASCIVO |

| Rate Service Owner Standard Responsibility | \$1.0696 Per Scheduled Job or Event Remick, Lois <u>Click</u> to email the Service Owner a question. Not Applicable R=Responsible, A=Accountable, S=Supportive, C=Consulted, | | | /=Verifies | s, O=Sign-Off |
|---|---|--|---------|----------------------|---------------|
| | Service Name / Activities | | | Supplier Partners | ΙΟΤ |
| | Understanding for jobs, series | of and timely delivery of scheduling requirements of jobs | RASCIVO | | RSCIV |
| | Translation of product(s). | scheduling requests into computerized scheduling | 1 | RSC | RASCVO |
| | _ | workloads including the delivery of alerts where throughput anomalies occur. | RIV | RSC | RASCV |
| | Scheduling Sof | tware Technical Support | | RASCV | RSCIVO |
| SLO | Requests:Individual job requests – Same Day Multiple job and small job series scheduling changes – 3 Business Days Large Job Series scheduling changes – 5 Business DaysAvailability99.9% Availability 24/7 | | | s Days | |
| | Incident | All circumvented incidents resolved the same of IOT Recognizes the schedule impacts during t | | anomalie | es. |
| Impact/Priority | High/High | | | | |
| Usage | 3.13 Million J | obs \ Scripts Scheduled (FY 2023) | | | |
| | Non-N | Aainframe platforms1.4 Million Jo | obs. | | |
| | Mainfi | rame1.73 Million Jo | obs. | | |
| Reports | Monthly IOT P | erformance Metrics – Click <u>here</u> | | | |
| Order | Click <u>here</u> to re | equest this service. | | | |
| Cancel | Click <u>here</u> to c | ancel your existing service. | | | |

| | | | | | <u>Co</u> |
|---|---|--|---|---|--|
| Name | Disk Storage Subsys | stem | | | |
| Service Code | 1092 | | | | |
| Purpose | Data Storage on Disk: Mainframe disk storage measured in megabytes measured daily. | | | | |
| Included | - | quenced (Flat) Files ✓ Indexed Files | • • | | • |
| | | oved Performance available for the above | | | |
| | • | se Extents; Any database operation includ | - | | ge |
| | | iety of user specified files | ang avala | | |
| | | Storage Subsystem Model 8910 (<u>DS891</u> | | | |
| | Available storage: | 10 TB | <u>or</u>) | | |
| | High Performance: | Average response time of just over one majority of input/output operations com | | | |
| | | microsecond. | 1 0/ | 0 | |
| | Retention Policy: De | etermined by agency and applied to file pr | roperties a | t time of a | allocation. |
| | Dynamic Recoverab | ility: ✓ Available depending on data t ✓ Conducted by the agency; Co ✓ IOT assist support available a | onvenience | | |
| | User Data Set Reten | tion: ✓ Retained online for 180 days | | | |
| | | Migrated to tape for 3 years | | | |
| | | ✓ Final Disposition: Deleted. | | | |
| | | ✓ Dynamically recoverable by d | lata set ow | ner; Conv | /enience! |
| | Disaster Recovery: | Synchronous replication of all disk dat Bloomington, Indiana using local reten Services here for description of mair | ntion police | s.See N | lainframe |
| | | System Security Authorization to allocate disk data sets | | | |
| Dependencies | System Security Auth | | | | |
| - | • | orization to allocate disk data sets. | | | |
| Rate | \$0.0003 Per MB Store | orization to allocate disk data sets. ed Per Day | I=Inform. \ | /=Verifies | s. O=Sign-C |
| Dependencies Rate Responsibility | \$0.0003 Per MB Store R=Responsible, A=Ac | orization to allocate disk data sets. ed Per Day ccountable, S=Supportive, C=Consulted, | | | s, O=Sign-C |
| Rate | \$0.0003 Per MB Store | orization to allocate disk data sets. ed Per Day ccountable, S=Supportive, C=Consulted, | Agency | Supplier | - |
| Rate | \$0.0003 Per MB Store R=Responsible, A=Ac Service Name / Activiti | orization to allocate disk data sets. ed Per Day ccountable, S=Supportive, C=Consulted, ies | Agency Partners | Supplier Partners | ΙΟΤ |
| Rate | \$0.0003 Per MB Store R=Responsible, A=Ac Service Name / Activiti Provide a Computer wi | orization to allocate disk data sets. ed Per Day ccountable, S=Supportive, C=Consulted, ies ith Network Access | Agency Partners RAVO | Supplier Partners SC | IOT SCI |
| Rate | \$0.0003 Per MB Store R=Responsible, A=Ac Service Name / Activiti Provide a Computer wi Supply Available Store | iorization to allocate disk data sets. ed Per Day ccountable, S=Supportive, C=Consulted, ies ith Network Access age Upon Demand. | Agency Partners RAVO ICVO | Supplier Partners SC SC | IOT SCI RAS |
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Fiscal Year 2023 IOT Product & Services Catalog

Cancel

Click <u>here</u> to cancel your existing service.

| Со | nt | en | ts |
|----|----|----|----|
| | | | |

| | | | | | - | ontent |
|--|---|--|---|---|--|--------|
| Name | Tape Storage Subsys | stem (Gigabytes of Consumed Tape S | torage) | | | |
| Service Code | 1094 | | | | | |
| Purpose | Supply Virtual Tape storage access to all mainframe workloads measured by individual mounting of any subsystem virtual tape. | | | | | |
| Included | Hardware: IBM Tape Storage Subsystem Model 7760(<u>TS7700</u>) No Mylar/Oxide tapes – High Reliability – High Performance – High Availability | | | | | |
| | High Performance Th | roughput: Processing at the speed of di | isk | | | |
| | Virtual Tape Storage | Capacity: 140 TB | | | | |
| | Virtual Tape Volumes | : 300,000 maximum | | | | |
| | Individual Tape Volur | ne Capacity: 6GB | | | | |
| | Maximum Virtual Tap | es Mounted: 512 at once (256 at Disast | er Recove | ery Site) | | |
| | Disaster Recovery: Grid Communication for asynchronous replication of all virtua to a TS7760 at the Disaster Recovery site in Bloomington, In local retention polices. See Mainframe Services, here, for o of mainframe Disaster Recovery services. | | | Indiana (| using | |
| | High Availability: | Three TS7760 cluster operations, two i Bloomington, provide seamless and im Communication, for local mainframe op volumes at the Disaster Recovery site failure occurring to either of the two loc | mediate a peration to in Bloomir | access, vi all replic ngton, Ind | a Grid ated tape iana for a | |
| Dependencies | System Security Autho | prization to allocate tape data sets. | | | | |
| Rate | \$0.0516 Per Gigabyte | of Consumed Storage | | | | |
| Standard | Not Applicable | | | | | |
| Responsibility | R=Responsible, A=Acc | countable, S=Supportive, C=Consulted, I | =Inform, \ | /=Verifies | , O=Sign- | -Off |
| | Service Name / Activities Agency Supplier | | | | | |
| | | | • ••• | | | |
| | | | Partners | Partners | IOT | |
| | Technical skills to code | work that accesses virtual tape services. | Partners IC | Partners SC | IOT RASIVO | |
| | Technical skills to code Supply Available Storag | | | | | |
| | Supply Available Storag Ensure High Performanc | e Upon Demand. ce Throughput at all Times. | IC | SC | RASIVO | |
| | Supply Available Storag Ensure High Performanc Provide disaster recover | e Upon Demand. ce Throughput at all Times. ry of Tape Storage Subsystem | IC ICVO IC IC | SC SC SC SC | RASIVO RAS RASIVO RASIVO | |
| | Supply Available Storag Ensure High Performanc Provide disaster recover Request changes to acce | te Upon Demand. te Throughput at all Times. ry of Tape Storage Subsystem ess control for Tape Resources | IC ICVO IC IC RAVO | SC SC SC SC SC | RASIVO RAS RASIVO RASIVO SCI | |
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| Metric SLO Impact/Priority | Supply Available Storag Ensure High Performance Provide disaster recover Request changes to acce Manage access control Maintain hardware relia Remick, Lois <u>Click</u> to 100% Availability durin Request: Compl Availability: 100% J Incident: 90% R High/High Approximately | te Upon Demand. Te Throughput at all Times. Try of Tape Storage Subsystem ess control for Tape Resources to Tape resources ability and current microcode levels to email the Service Owner a question. Ing regular scheduled mainframe operation leted within 3 Business days. Availability during regular scheduled mai Resolved within 16 IOT Business Hours (6 6 Million tape mounts annually. (FY 20) 4.2 Million Mounts for Input 1.8 Million Mounts for Output | IC ICVO IC IC RAVO SCIVO IC n forframe op 6am-6om, 23) | SC SC SC SC SC RSC | RASIVO RAS RASIVO SCI RAS RASCIVO | 5) |
| Metric SLO Impact/Priority | Supply Available Storag Ensure High Performance Provide disaster recover Request changes to acce Manage access control Maintain hardware relia Remick, Lois <u>Click</u> to 100% Availability durin Request: Compl Availability: 100% f Incident: 90% R High/High Approximately | te Upon Demand. te Throughput at all Times. try of Tape Storage Subsystem ess control for Tape Resources to Tape resources ability and current microcode levels to email the Service Owner a question. Ing regular scheduled mainframe operation leted within 3 Business days. Availability during regular scheduled mail Resolved within 16 IOT Business Hours (6 6 Million tape mounts annually. (FY 20 4.2 Million Mounts for Input 1.8 Million Mounts for Output 8.4 Billion Input / Output Operations annually. | IC ICVO IC RAVO SCIVO IC n 6am-6om, 23) ually (FY 2 | SC SC SC SC SC RSC Deration M-F excl | RASIVO RAS RASIVO SCI RAS RASCIVO | 5) |
| Metric SLO Impact/Priority | Supply Available Storag Ensure High Performance Provide disaster recover Request changes to acce Manage access control Maintain hardware relia Remick, Lois <u>Click</u> to 100% Availability durin Request: Compl Availability: 100% f Incident: 90% R High/High Approximately | te Upon Demand. Te Throughput at all Times. Try of Tape Storage Subsystem ess control for Tape Resources to Tape resources ability and current microcode levels to email the Service Owner a question. Ing regular scheduled mainframe operation leted within 3 Business days. Availability during regular scheduled main Resolved within 16 IOT Business Hours (6 6 Million tape mounts annually. (FY 202 4.2 Million Mounts for Input 1.8 Million Mounts for Output 8.4 Billion Input / Output Operations annually. 29 Trillion Bytes of data transferred annually. | IC ICVO IC IC RAVO SCIVO IC IC n frame op 6am-6om, 23) ually (FY 2 ually (FY 2 | SC SC SC SC SC RSC Deration M-F excl | RASIVO RAS RASIVO SCI RAS RASCIVO | 6) |
| Metric SLO Impact/Priority | Supply Available Storag Ensure High Performance Provide disaster recover Request changes to acce Manage access control Maintain hardware relia Remick, Lois <u>Click</u> to 100% Availability durin Request: Compl Availability: 100% f Incident: 90% R High/High Approximately | te Upon Demand. te Throughput at all Times. try of Tape Storage Subsystem ess control for Tape Resources to Tape resources ability and current microcode levels to email the Service Owner a question. In gregular scheduled mainframe operation leted within 3 Business days. Availability during regular scheduled mail Resolved within 16 IOT Business Hours (6 6 Million tape mounts annually. (FY 20 4.2 Million Mounts for Input 1.8 Million Mounts for Output 8.4 Billion Input / Output Operations annually. | IC ICVO IC IC RAVO SCIVO IC IC n frame op 6am-6om, 23) ually (FY 2 ually (FY 2 | SC SC SC SC SC RSC Deration M-F excl | RASIVO RAS RASIVO SCI RAS RASCIVO | 5) |
| Metric SLO Impact/Priority Usage Reports | Supply Available Storag Ensure High Performance Provide disaster recover Request changes to acce Manage access control Maintain hardware relia Remick, Lois <u>Click</u> to 100% Availability durin Request: Compl Availability: 100% f Incident: 90% R High/High Approximately | te Upon Demand. Te Throughput at all Times. Try of Tape Storage Subsystem ess control for Tape Resources to Tape resources ability and current microcode levels to email the Service Owner a question. Ing regular scheduled mainframe operation leted within 3 Business days. Availability during regular scheduled main Resolved within 16 IOT Business Hours (6 6 Million tape mounts annually. (FY 20) 4.2 Million Mounts for Input 1.8 Million Mounts for Output 8.4 Billion Input / Output Operations annually. (29 Trillion Bytes of data transferred annu- 24,654 Average bytes transferred ince Metrics – Click here | IC ICVO IC IC RAVO SCIVO IC IC n frame op 6am-6om, 23) ually (FY 2 ually (FY 2 | SC SC SC SC SC RSC Deration M-F excl | RASIVO RAS RASIVO SCI RAS RASCIVO | 5) |
| Metric SLO Impact/Priority Usage | Supply Available Storag Ensure High Performance Provide disaster recover Request changes to acce Manage access control Maintain hardware relia Remick, Lois <u>Click</u> to 100% Availability durin Request: Compl Availability: 100% f Incident: 90% R High/High Approximately | te Upon Demand. Te Throughput at all Times. Try of Tape Storage Subsystem ess control for Tape Resources to Tape resources ability and current microcode levels to email the Service Owner a question. Ing regular scheduled mainframe operation leted within 3 Business days. Availability during regular scheduled main Resolved within 16 IOT Business Hours (6 6 Million tape mounts annually. (FY 20) 4.2 Million Mounts for Input 1.8 Million Mounts for Output 8.4 Billion Input / Output Operations annually. (29 Trillion Bytes of data transferred annu- 24,654 Average bytes transferred ince Metrics – Click here | IC ICVO IC IC RAVO SCIVO IC IC n frame op 6am-6om, 23) ually (FY 2 ually (FY 2 | SC SC SC SC SC RSC Deration M-F excl | RASIVO RAS RASIVO SCI RAS RASCIVO | 5) |
| Metric SLO Impact/Priority Usage Reports | Supply Available Storag Ensure High Performance Provide disaster recover Request changes to acce Manage access control Maintain hardware relia Remick, Lois <u>Click</u> to 100% Availability durin Request: Compl Availability: 100% f Incident: 90% R High/High Approximately | te Upon Demand. Try of Tape Storage Subsystem ess control for Tape Resources to Tape resources ability and current microcode levels to email the Service Owner a question. Ing regular scheduled mainframe operation leted within 3 Business days. Availability during regular scheduled mai Resolved within 16 IOT Business Hours (6 6 Million tape mounts annually. (FY 20 4.2 Million Mounts for Input 1.8 Million Mounts for Output 8.4 Billion Input / Output Operations annually. (29 Trillion Bytes of data transferred annu- 24,654 Average bytes transferred mis service. | IC ICVO IC IC RAVO SCIVO IC IC n frame op 6am-6om, 23) ually (FY 2 ually (FY 2 | SC SC SC SC SC RSC Deration M-F excl | RASIVO RAS RASIVO SCI RAS RASCIVO | 6) |

| Name | Batch / System | | contents | | |
|-----------------|---|--|---|--|--|
| Service Code | 1206 | | | | |
| Service Index | Database Services | 24 / 7 / 365 Support | Modernized COBOL | | |
| (Click to Go) | File Management | Virtual Tape Services | Library Management | | |
| | Alert Services | Disaster Recovery | Transaction Server | | |
| | Report Distribution | | | | |
| Service Purpose | operation in all areas of appl | lication system throughput ar | gh performance and cost controlled Id delivery. The following services are f of Concept anywhere IOT Network | | |
| | variety of work and in a | variety of scripting and progra | e interactive access and operation for a amming languages. Interfaces with a ability for various forms of interactive | | |
| | • Java / Node.js – Support for development and operation of this popular language. | | | | |
| | C++ - Support for development | opment and operation of this | popular language. | | |
| | Apache / WebSphere Application Services – Host your Web applications here. | | | | |
| | Modernized COBOL development and operation | | | | |
| | Sophisticated development program library management and change control. | | | | |
| | manipulation, working w IBM System z mainfram | ith many file structures and d | nensive file management and data latabases present or operating on the abilities is the definitions of files, in a variety of forms: | | |
| | Unix files | ∘ <u>IMS</u> – M | anipulate elements and data | | |
| | Flat files | Map rec | ord elements | | |
| | Virtual Managed files | (VSAM) o Sort dat | a | | |
| | Indexed files | o Perform | Sophisticated Comparisons | | |
| | <u>CICS</u> Storage Resou | rces o Invoke F | REXX routines; Automation | | |
| | ○ <u>DB2</u> – Various data a | and resources | | | |
| | Alert Services for anom delivered by eMail. | nalous change in application | system or subsystem operation | | |
| | Report Distribution – C printers and eMail boxes | | rom mainframe operation to network | | |
| | • 24 / 7 / 365 Support – C | Continuous operational staffin | g for response to all operational needs. | | |
| | Virtual Tape Library - | ТВ | h Reliability - High Performance - 140 | | |
| | Click <u>here</u> to access Virtual Tape Library service | | | | |
| | Comprehensive Disaster Recovery (DR) – Included A Twin IBM System z mainframe operation, located at the University of Indiana, | | | | |
| | A I win IBM System z maintrame operation, located at the University of Indiana, operating as disaster recovery warm site. | | | | |
| | Nearly Instantaneo Bloomington, Indian | | d tape storage to DR operation in | | |
| | 140 TB of tape s | storage | | | |
| | 10 TB of disk st | torage | | | |
| | - | • | nots for a total of three off-site versions | | |
| | | disk snapshots permit full Dis continuous live operation in I | aster Recovery event testing with and anapolis; zero impact. | | |
| | \sim Available three tim | es each calendar vear for d | isaster recovery assurance testing | | |

• Available three times each calendar year for disaster recovery assurance testing

| | Hardware, Software and Operation included in the service rate. |
|---------------------|--|
| | DR testing services are a collaboration between the Agency, Mainframe Services, and Middleware Operational service teams organized, managed, conducted and documented by DR Project Management Services. Click <u>here</u> for additional Disaster Recovery information from IOT. |
| | Complete Network Access to live or test DR operation from anywhere IOT Network services are found. |
| | Recovery Time Objective (RTO – Downtime) - This requirement directs restoration of service 6 hours from the time the CIO declares an actual disaster upon advice from the Governor. |
| | DR Recover Point Objective (RPO – Data loss) will be worked agency specific, as they may vary with the agency system |
| Extended Services | Available for development and customization to user specification without procurement. Arrangement by <u>Service Owner</u> . |
| | Performance Metrics Reporting |
| | • Highly detailed and/or summarized reporting, delivered to customer inboxes, is available on a variety of performance, throughput and resource consumption metrics. From transaction response time to data throughput, reporting demonstrates that SLA requirements, determined and agreed upon by IOT and the customer, are being met. Reporting is also available for customer application performance tuning. A wealth of performance and throughput reporting is available. |
| Obtainable Services | Available for procurement or development by arrangement of <u>Service Owner</u> . |
| | Linux High Performance Hosting |
| | Host Linux applications, application suites or databases on a high performance Linux operation, participating as a local or distributed operation. When operating, this extended service Includes <u>Disaster Recovery</u> services. |
| | Application Program Interface |
| | • SOAP or RESTful API interface to mainframe application operation. Deliver APIs to a variety of application services including HTTP. |
| | API Management |
| | Manage, deliver and secure APIs. |
| Rate | \$0.1735 Per CPU Second |
| | Explanation: Product 1206 consist of the accumulated CPU seconds for both the TSO and Batch transaction records found in the SMF Type 30 records that are generated from activity occurring on the mainframe. Below you will find the record detail and subtypes definition. |
| | SMF Type 30 - Contains z/OS address space accounting information |
| | Subtype 1 - Address Space Start |
| | Subtype 2 - Activity through previously recorded interval - Intermediate accounting |
| | record |
| | Subtype 3 - Activity for the last interval before step termination |
| | Subtype 4 - Step Totals |
| | Subtype 5 - Address Space Termination |
| | Subtype 6 - System Address Space |
| Service Owner | Remick, Lois <u>Click</u> to email the Service Owner a question. |
| Standard | Not Applicable |

Responsibility

| Responsibility | R=Responsible, A=Accountable, S=Supportive, C=Consulted, | - | | s, 0–Sign |
|---------------------------|--|--------------------|----------------------|-----------|
| | Service Name / Activities | Agency Partners | Supplier Partners | ΙΟΤ |
| | Provide a computer with network access and appropriate terminal emulator software for access to the IBM System z | RAIVO | SC | RSIV |
| | Knowledge and Skills to develop and implement executable programs and interpreted scripts | RAIVO | SC | RSIV |
| | Provision of coded program compilers customized to Agency Partner subsystem as noted in the IOT Service Catalog | IVO | SC | RASIV |
| | Provide operating system documentation related to all aspects of batch processing including subsystem interfacing | RIVO | SC | RASCIV |
| | Knowledge and Skills to develop all aspects Job Control Language to render a batch job stream | RAIVO | SC | RSIV |
| | Knowledge and Skills to diagnose and interpret and resolve basic and complex operating system abnormal end codes | RAIVO | SC | RSIV |
| | Collaboration and cooperation with IBM System z administrators at IOT and IOT Computer Operations as needed for guidance in composition, parameter definition and operation of batch work | RAIVO | SC | RSCIV |
| | Provide IBM System z support of all aspects of Agency Partner development effort and for live, production operation | IVO | SC | RASCV |
| | Provide method for implementation of new and updated batch work | IVO | SC | RASV |
| | Provide standard and appropriate requests to IOT Operations standard for managing to manage implementation, update and deletion of batch work. Includes Product 1066 - Production Jobs | RAIV | sc | RSV |
| Metric Impact/Priority | | oorts belov | N. | |
| Lead Time Measurement | None Required. Immediately available for operating mainfram Mainframe operating system IBM System z Operating System TSO 45.8 Million Standard Business Day Transactions | ; z/OS Ver | sion 2 Rel | lease 3 |
| Deverte | Manthely IOT Darfama an an Matrice - Oligit have | | | |

| | 130 43.0 Million Standard Business Day Transaction |
|--------------|--|
| Reports | Monthly IOT Performance Metrics – Click here |
| Dependencies | None |
| Order | Click here to request this service. |

Click <u>here</u> to cancel your existing service. Cancel

| Name | Relational Database – DB2 | | | | | | |
|-----------------|--|--|--|--|--|--|--|
| Service Code | 1207 | | | | | | |
| Service Index | Java / Node.js Database Services 24 / 7 / 365 Support | | | | | | |
| | Alert Services Disaster Recovery SOAP / API / JSON | | | | | | |
| Service Purpose | Highly configurable, highly reliable, highly recoverable, high performance and cost controlled DB operation in all areas of application system throughput and delivery. The following services are <i>immediately available</i> for customer assignment or Proof of Concept anywhere IOT Network services are found: | | | | | | |
| | • Java / Node.js – Support for development and operation of this popular language. | | | | | | |
| | DB2 Relational Database Services | | | | | | |
| | z/OS - Operates on IBM's System z flagship operating system, z/OS | | | | | | |
| | Linux - Operates on IBM System z Integrated Facility for Linux (IFL) | | | | | | |
| | Available to JDBC/ODBC connectivity as identified herein. Initiation of 200AB and DECTful ABIa via ISON (Cost Obtainable Complete here) | | | | | | |
| | Utilization of SOAP and RESTful APIs via JSON (See Obtainable Services, <u>here</u>) | | | | | | |
| | Application Interfaces Within various exploitations or limitations, DB2 on the IBM System z interfaces with: | | | | | | |
| | Local Operation: Application systems contained within IBM System z mainframe | | | | | | |
| | operation. | | | | | | |
| | Remote/Distributed application program products and services running on virtually any operating system platform that requires relational database services by an extensive selection of application development products. Remote operating systems include: | | | | | | |
| | Other IBM System z operations | | | | | | |
| | Linux Application Servers, including high performance Linux operation availabl contained within the current IBM System z mainframe operation. | | | | | | |
| | UNIX Application Servers, including high performance UNIX operation available, contained within the current IBM System z mainframe operation. | | | | | | |
| | ✓ Windows Application Servers | | | | | | |
| | ✓ IBM AIX operation | | | | | | |
| | ✓ Others | | | | | | |
| | Application Development Products: | | | | | | |
| | .Net including Visual Basic, both Microsoft or third party | | | | | | |
| | ✓ C, C+, C++, C# ✓ Python | | | | | | |
| | 🗸 Java - Any Provider of Java 🖌 Perl | | | | | | |
| | ✓ JavaScript ✓ Many others | | | | | | |
| | Comprehensive Disaster Recovery (DR) – Included | | | | | | |
| | A Twin IBM System z mainframe operation, located at the University of Indiana, operating as disaster recovery warm site. | | | | | | |
| | Nearly Instantaneous Replication of all disk and tape storage to DR operation in Bloomington, Indiana. | | | | | | |
| | 140 TB of tape storage | | | | | | |
| | 10 TB of disk storage | | | | | | |
| | ✓ Includes separate semi-daily disk snapshots for a total of three off-site versions | | | | | | |
| | Semi-Daily disk snapshots permit full Disaster Recovery event testing without impact to continuous live operation in Indianapolis; zero impact. | | | | | | |
| | • Available three times each calendar year for disaster recovery assurance testing | | | | | | |
| | Hardware, Software and Operation included in the service rate. | | | | | | |

| | | DR testing services are a collaboration between the Agency, Mainframe Services, and Middleware Operational service teams organized, managed, conducted and documented by DR Project Management Services. Click <u>here</u> for additional Disaster Recovery information from IOT. | | | | | | |
|---------------------|---|---|---|--|--|--|--|--|
| | | 0 | Complete Network Access to live services are found. | or te | est DR operation from anywhere IOT Network | | | |
| | | 0 | | Downtime) - This requirement directs restoration of CIO declares an actual disaster upon advice from the | | | | |
| | | 0 | DR Recover Point Objective (RPO - may vary with the agency system | – Da | ata loss) will be worked agency specific, as they | | | |
| | • IBM's File Manager - User friendly tools for comprehensive file management and data manipulation, working with many file structures and databases present or operating IBM System z mainframe. Among File Manager capabilities is the definitions of files browsing, editing, copying and printing of data stored in a variety of forms: | | | | | | | |
| | | 0 | Unix files | 0 | IMS – Manipulate elements and data | | | |
| | | 0 | Flat files | 0 | Map record elements | | | |
| | | 0 | Virtual Managed files (VSAM) | 0 | Sort data | | | |
| | | 0 | Indexed files | 0 | Perform Sophisticated Comparisons | | | |
| | | 0 | CICS Storage Resources | 0 | Invoke REXX routines; Automation | | | |
| | | 0 | DB2 – Various data and resources | | | | | |
| | Alert Services for anomalous change in application system or subsystem operation delivered by eMail. | | | | | | | |
| | Report Distribution – On-demand delivery directly from mainframe operation to network printers and eMail boxes in a variety of formats. 24 / 7 / 365 Support – Continuous operational staffing for response to all operational | | | | | | | |
| | | | | | | | | |
| | Virtual Tape Library - No Mylar/Oxide tapes - High Reliability - High Performance - 14 TB | | | | | | | |
| | Click here to access Virtual Tape Library service | | | | | | | |
| Extended Services | | | ble for development and customizatio ement by <u>Service Owner</u> . | n to | user specification without procurement. | | | |
| | Pe | erfor | mance Metrics Reporting | | | | | |
| | • | vai res an cus | riety of performance, throughput and sponse time to data throughput, repord agreed upon by IOT and the custor | resc ting ner, | g, delivered to customer inboxes, is available on a burce consumption metrics. From transaction demonstrates that SLA requirements, determined are being met. Reporting is also available for A wealth of performance and throughput reporting | | | |
| Obtainable Services | Av | vailat | ble for procurement or development b | y ar | rangement of <u>Service Owner</u> . | | | |
| | Linux High Performance Hosting | | | | | | | |
| | • | ор | | tribu | r databases on a high performance Linux ted operation. When operating, this extended s. | | | |
| | Ap | oplic | ation Program Interface | | | | | |
| | • | ар | | | existing or newly developed mainframe to a variety of application services on any | | | |
| | | | | | | | | |

API Management

• Manage, deliver and secure APIs.

| Rate | 0.3407 Per CPU Second | | | | | | | |
|-----------------|---|--------------------|----------------------|-------------|----|--|--|--|
| | Explanation: Product 1207 consists of the accumulated CPU seconds for all DB2 transactions records found in the SMF Type 101 records that are generated from activity occurring on the mainframe. Below is the record description. | | | | | | | |
| | SMF Type 101 - DB2 - Account for resources during a transac | tion | | | | | | |
| Service Owner | Remick, Lois <u>Click</u> to email the Service Owner a question. | | | | | | | |
| Standard | Not Applicable | | | | | | | |
| Responsibility | R=Responsible, A=Accountable, S=Supportive, C=Consulted, I=Inform, V=Verifies, O=Sign-Off | | | | | | | |
| | Service Name / Activities | Agency Partners | Supplier Partners | IOT | | | | |
| | Physical Database Administration - (production databases) | RV | SC | RASV | | | | |
| | Physical Database Administration - (development databases) | RAV | SC | SC | | | | |
| | Logical Database Administration - (all subsystems) | RAV | SC | SC | | | | |
| | Database System Administration - (all subsystems) | CI | SC | RAS | | | | |
| | Request changes to access control | RAV | SC | CS | | | | |
| | Manage access control to DB2 resources | 1 | SC | RAS | | | | |
| | Produce appropriate requests for product services (for example: requests to Physical DBA for production subsystems) | RV | SC | RASV | | | | |
| | DB2/QMF or other mainframe software Version or Version level upgrades | IVO | SC | CRASV | | | | |
| | DB2 Runtime client (on agency servers) | RAVO | SC | SC | 1 | | | |
| | DB2 Runtime client (on IOT servers) | IV | SC | CRASVO | | | | |
| | Other agency server software connecting to DB2 subsystems | RA | SC | SC | | | | |
| | Monitoring software | 1 | SC | CRASVO | | | | |
| Metric | 99.9% Mainframe Availability 24/7 – IBM, IMS, DB2 – See Rep | ports belo | W. | | • | | | |
| Impact/Priority | High/High | | | | | | | |
| Lead Time | None Required. Immediately available for operating mainfran | ne applica | tion syste | ms. | | | | |
| Measurement | Mainframe operating system IBM System z Operating System; | z/OS Ver | sion 2 Re | lease 1 | | | | |
| | DB2 75 Million Standard Business Day Transactions | (Fy 2023) | – 76.5 M | illion Tota | al | | | |
| Reports | Monthly IOT Performance Metrics – Click <u>here</u> | | | | | | | |
| Dependencies | None | | | | | | | |
| References | DCS Viswanath Atluri FSSA Sandy Mowery FSSA Rick Shull | | | | | | | |
| Order | Click here to request this service. | | | | | | | |
| Cancel | Click here to cancel your existing service. | | | | | | | |
| Junoon | Cher in a content your existing service. | | | | | | | |

| Name | CICS | | | | | | | | |
|---------------------|--|-------------------|----------------------|--------|--|--|--|--|--|
| Service Code | 1209 | | | | | | | | |
| Service Index | Transaction Server | | | | | | | | |
| Service Purpose | IBM's Customer Information Control System – CICS Transaction Server | | | | | | | | |
| | A First Class application transaction server | | | | | | | | |
| | Including operation of transactional Java applications – Node. | js | | | | | | | |
| | Utilization of SOAP and RESTful APIs (See Obtainable Serv | ices, <u>here</u> |) | | | | | | |
| | Read more about the CICS Transaction Server here. | | | | | | | | |
| Extended Services | | | | | | | | | |
| | | | | | | | | | |
| | • Highly detailed and/or summarized reporting, delivered to customer inboxes, is available on a variety of performance, throughput and resource consumption metrics. From transaction response time to data throughput, reporting demonstrates that SLA requirements, determined and agreed upon by IOT and the customer, are being met. Reporting is also available for customer application performance tuning. A wealth of performance and throughput reporting is available. | | | | | | | | |
| Obtainable Services | Available for procurement or development by arrangement of Service Owner. | | | | | | | | |
| | Application Program Interface SOAP or RESTful API (JSON) to existing or newly developed mainframe application operation. Deliver APIs in HTTP to a variety of application services on any platform. | | | | | | | | |
| | | | | | | | | | |
| | API Management | | | | | | | | |
| | Manage, deliver and secure APIs. | | | | | | | | |
| Rate | \$0.0542 Per CPU Second | | | | | | | | |
| | Explanation: Product 1209 consists of the accumulated CPU seconds for all CICS transactions records found in the SMF Type 110 records which are generated from activity occurring on the mainframe. Below is a description of this record type. SMF Type 110 - CICS Transaction Server - Transaction data collected at event monitoring points | | | | | | | | |
| Service Owner | Remick, Lois <u>Click</u> to email the Service Owner a question. | | | | | | | | |
| Responsibility | sponsibility R=Responsible, A=Accountable, S=Supportive, C=Consulted, I=Inform, V=Verifies, C | | | | | | | | |
| | Service Name / Activities | | Supplier Partners | ΙΟΤ | | | | | |
| | Provide a Computer with Network Access | RAIVO | RSC | RSC | | | | | |
| | Install, maintain, configure, implement, and support CICS system software | SIVO | RSC | RASCV | | | | | |
| | Install, maintain, and support all CICS related program products | SIVO | RSC | RASCV | | | | | |
| | Implement new maintenance and fixes in a manner which minimizes risk and | SIVO | RSC | RASCVO | | | | | |
| | Agency Partner impact | | | | | | | | |
| | Plan, coordinate, and deploy new CICS related program products and/or | SIVO | RSC | RASCVO | | | | | |
| | update existing CICS software Perform System Administrator functions for all CICS systems | SCIVO | RSC | RASCVO | | | | | |
| | Develop, test, and deploy CICS applications | RASCIVO | RSC | RSCIV | | | | | |
| | Resolve CICS application problems | RASVO | RSC | RSC | | | | | |
| Metric | 99.9% Mainframe Availability 24/7 – IBM, IMS, DB2 – See Reports be | | | | | | | | |
| Impact/Priority | High/High | | | | | | | | |
| Lead Time | None Required. Immediately available for operating mainframe application systems. | | | | | | | | |
| Measurement | Mainframe operating system IBM System z Operating System; z/OS Version 2 Release 3 | | | | | | | | |
| | CICS 46.6 Million Standard Business Day Transactions (FY 2023) – 47.2 Million Total | | | | | | | | |
| Reports | Monthly IOT Performance Metrics – Click here | | | | | | | | |
| Dependencies | None | | | | | | | | |
| Order | Click <u>here</u> to request this service. | | | | | | | | |
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