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Leveraging your IBM z System
The ibi™ Mainframe Product Suite

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Session Agenda

- ibi Solutions
- Other BI Tool Solutions
- Developing Own Solutions



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ibi Solutions



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Overview of the ibi™ Mainframe Product Suite

The ibi™ Mainframe Product Suite offers a comprehensive set of tools for modernization:

ibi FOCUS
The legendary 4GL for complex reporting.

ibi FOCUS Studio
A modern IDE for developers.

WebFOCUS Reporting Server on Mainframe
The central engine for data access.

ibi Open Data Hub (ODH)
A data integration gateway for BI teams.

ibi Data Migrator on Mainframe
Automated ETL and data movement.

ibi Data Intelligence
Comprehensive governance and profiling.

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Modernizing FOCUS & Studio for Developers

Power on z/OS

ibi FOCUS

ibi FOCUS delivers high-performance reporting directly on z/OS, featuring advanced data manipulation commands like MATCH and MORE, and Financial Modeling Language (FML) for complex hierarchies.

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Modernizing FOCUS & Studio for Developers

Modern IDE

ibi FOCUS Studio

To modernize the developer experience, ibi FOCUS Studio provides a Graphical User Interface for FOCUS code. It includes syntax highlighting, visual flow control, and integrated development lifecycle support. Furthermore, FOCUS Studio connects directly to the Reporting Server, enabling live testing and debugging against live mainframe data.

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WebFOCUS Reporting Server on Mainframe

Adapters & Data Foundation

The central processing engine for data access. It supports native adapters to key mainframe structures, including **VSAM**, **Db2**, **IMS**, and **IDMS**, serving as the foundation for modern data requests.

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WebFOCUS Reporting Server on Mainframe

Procedures & Synonyms

Legacy FOCUS procedures run seamlessly against the Reporting Server using unified metadata through **Synonyms**. In a HUB/SUB environment, FOCUS acts as a client to WebFOCUS, enabling cross-platform data access.

```
// WebFOCUS SYNONYM METADATA DEFINITION (VSAM EMPLOYEE FILE)
FILENAME=EMPLOYEE, SUFFIX=VSAM, $
SEGNAME=EMP_INFO, SEGTYPE=S0, $
  FIELDNAME=EMP_ID, ALIAS=ID, USAGE=A9, ACTUAL=A9, $
  FIELDNAME=LAST_NAME, ALIAS=LN, USAGE=A15, ACTUAL=A15, $
  FIELDNAME=SALARY, ALIAS=CURR_SAL, USAGE=D12.2M, ACTUAL=D8, $
```

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Other BI Tool Solutions



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Open Data Hub (ODH)

In-Place Live Access

Query Freshest Data Directly from Source.

The Open Data Hub (ODH) is a data integration gateway specifically built for data analysts and BI teams. It favors live, in-place access to mainframe data over traditional offloading methods.

By acting as a real-time bridge, ODH prevents stale data issues and eliminates the need for massive, complex ETL pipelines. This ensures that your BI tools always query the freshest data available directly from the source without requiring data migration.

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The ibi Mainframe Connector for Power BI

The ibi Mainframe Connector for Power BI provides a secure, real-time bridge to mission-critical sources.

MODES
Supports both **Import** and **DirectQuery** modes for flexible data access.

CONNECTIVITY
Includes **24 native adapters** purpose-built for mainframe structures like VSAM and IMS.

IMPACT
Ensures **zero disruption**, requiring no changes to core systems.

VALUE
Shortens sales cycles for BI implementations, increases Power BI adoption, and enables real-time fraud detection.

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ODH Semantic Intelligence & Performance Optimization

Semantic Intelligence

Mainframe data is notoriously complex, often containing **redefines** and **occurs** clauses.

ODH provides semantic intelligence that translates this complex mainframe logic into Power BI-ready tabular models.



This automated translation layer strictly maintains original data lineage and enterprise security protocols.

Performance Optimization

>20%

Load Time Reduction: Recent updates to the ODBC connector and metadata calls successfully accelerated Power BI queries.

```
DATASET CACHING CONFIGURATION
SET PCHOLDCACHE=ON
```

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ibi Solutions



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API-First Interoperability

The WebFOCUS Reporting Server utilizes an API-first approach with new WFRSX REST API capabilities, enabling independent application development.

Full compatibility with standard **POST** and **JSON** body requests allows bi-directional integration with tools like Qlik Sense, Grafana, Tableau, and custom corporate applications.

```
// Automated Synonym Creation
POST /adapters/create-synonym
{
  "connection": "mainframe_prod",
  "pipeline": "ci-cd-v4"
}
```

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Enterprise Security, Governance, and Cost Savings

Securing z/OS data (RACF, ACF2, Top Secret)

Modernizing in-place ensures enterprise security by integrating seamlessly with existing z/OS security frameworks like RACF, ACF2, and Top Secret.

Your sensitive PII and PCI data stays exactly where it belongs, ensuring tight governance and eliminating unauthorized data copies.

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Enterprise Security, Governance, and Cost Savings

Cost Savings & Bandwidth Efficiency

By not constantly moving data to the cloud, organizations can avoid massive egress costs and save on bandwidth.

You can selectively choose which workloads to offload, maintaining the stability of core systems while avoiding the massive costs of migration.

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Summary and Conclusion

The ibi Mainframe Product Suite transforms your mission-critical data into a competitive advantage. You can modernize in-place without the extensive risks and costs associated with migration.

By providing direct access to VSAM, IMS, IDMS, and Db2, you empower your BI teams to deliver fast insights using Power BI and Open Data Hub (ODH). Furthermore, our robust REST APIs allow developers to build custom applications freely, ensuring your mainframe data seamlessly integrates into the modern data ecosystem.

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