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Next 45 Minutes

- Refocus mainframe solutions across the development lifecycle
  - Development, test and deploy
- Outline our Mainframe Solutions Product vision and roadmap
- Introduce Enterprise Team Developer
- Outline what this means to our existing Mainframe Express Customers
Bio – Eddie Houghton

• Enterprise Solutions Product Director
• Started with Micro Focus in 1990
  – Mainframe Express Product Manager
• 10 years outside of Micro Focus running a services business
• Rejoined in September 2011
Mainframe IT Challenges Vary by Role
> Common themes

**Knowledge**
- What applications should we use
- What need insight to shape IT strategy
- It’s difficult to know where to start

**Development**
- We must solve our skills crisis
- We are stifled on 3270
- My teams just aren’t productive

**Quality**
- Our testing is hugely expensive
- We never hit test milestones
- We need to deliver 20% more this year

**Deployment**
- We are running short of processing time
- The mainframe upgrade is so expensive
- I’m paying a fortune to run our systems

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Head of Development  Service Delivery Mgr  IT Ops Mgr  Strategy Manager  Ops Mgr  CTO  QA Manager  Chief Architect  CIO  Technical Analyst
> Common themes with common needs

- **Knowledge**
  - Portfolio Knowledge, Requirements Definition

- **Development**
  - Unified Application Development, Requirements Definition and Management, Change Management

- **Quality**
  - Requirements Management, Test Environment and Execution, Test Data Management, User Access

- **Deployment**
  - Application Service Deployment

Roles:
- Head of Development
- Service Delivery Mgr
- IT Ops Mgr
- Strategy Manager
- Ops Mgr
- CTO
- QA Manager
- Chief Architect
- CIO
- Technical Analyst
Knowledge

Enterprise-wide information and insight to support superior IT strategy

Benefits

• Identify genuine priorities to improve application portfolio
• Accelerate modernization projects by 40% and more
• Cut 15% and more from maintenance budgets

Capability

• A variety of technical, operational data is presented as business insight
• Dashboard views allow focus on key KPIs to enable informed decision making
• Detailed technical metrics are derived from the only source of truth – the applications themselves
Application Development

Best-in-class COBOL and PL/I development environment for superior productivity

**Benefits**

- Rejuvenation of skill pool across modern environments
- Delivery times improved by 40%
- Improved application quality
- Unprecedented innovation capacity

**Capability**

- Unified Visual Studio or Eclipse environment supports cross-development
- Productive environment builds-in quality, saves time and accelerates new opportunities
- Collaboration improves quality
Quality

Ground-breaking quality with unprecedented flexibility and cost-efficiency

Benefits

- Reduce costs of testing resources and contain costs of expanding test resources
- Remove capacity bottlenecks and improve time-to-delivery
- Improve delivery quality and unify the development process

Capability

- Undertake scaled enterprise testing without consuming mainframe cost or resource
- Server-based solutions flex and scale to support intensive testing periods
- Test more in less time
- Provides an end-to-end Java and .NET test framework
Enterprise Deployment

The low-risk, self funding route to agile enterprise application deployment

Benefits

• 77% reduction in operating cost; the low-risk alternative to rewrite and replace
• Shorten delivery cycles by 50%
• Supports Agile IT

Capability

• Enterprise application deployment without the mainframe cost
• COBOL and PL/I, CICS or IMS-TM, DB2, IMS DB, VSAM and JCL apps re-host with little source code change
• Proven environment supporting hundreds of live clients
• Deploy to any enterprise-standard environments
**Micro Focus Mainframe Solutions**
The smartest way to build and manage enterprise applications

<table>
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<tr>
<th>Client Objectives</th>
<th>Key Requirements</th>
<th>Micro Focus Solutions</th>
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<tr>
<td>Prioritization of Modernization projects</td>
<td>Understand the application landscape</td>
<td>Enterprise Analyzer</td>
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<td>Value-add IT Service Provision</td>
<td>Cost-Effective Enterprise Deployment</td>
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<td>Application Service Delivery</td>
<td>Improved Service Delivery Cycles</td>
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<td>Development Group efficiency and quality</td>
<td>Efficient, high-quality development team output</td>
<td>Enterprise Team Developer</td>
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<td>Enterprise-fit application development using best-in-class technology</td>
<td>Enterprise Development Environment to support cross-skilling</td>
<td>Enterprise Developer</td>
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## The Modernization Portfolio

**Achieve Business Goals through Service Delivery Excellence**

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>Enterprise Server</strong></td>
<td>70% lower Production cost with rapid ROI achieved through unique enterprise deployment technology</td>
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<tr>
<td><strong>Enterprise Test Server</strong></td>
<td>Enterprise-ready testing environment to accelerate service delivery and remove needless cost</td>
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<tr>
<td><strong>Enterprise Team Developer</strong></td>
<td>Unified mainframe development and testing environment yielding 40% more productive group delivery</td>
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<tr>
<td><strong>Enterprise Developer</strong></td>
<td>State of the art multi-language Eclipse development for rapid creation of enterprise COBOL</td>
</tr>
<tr>
<td><strong>Enterprise Analyzer</strong></td>
<td>Application portfolio management through impact analysis heightening accuracy in project prioritization and program change</td>
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Modernized Mainframe Development: Introducing Enterprise Developer
We need first to identify the applications that are costing us the most money across a variety of indicators – these are the ones we need to assess first!

We know what we need to try to do, but it is difficult to decide where to start. Everything relates to everything else and there's no easy way of managing our system atlas. All studies we do are immediately out of date.

Which is the quickest way to build new services – what applications should we use? I want to know how we can overtake our competition with superior IT functionality.

My teams just aren’t productive enough to meet the backlog of business requirements. We need to find ways to meet our Service commitments which are harder than ever. My Java guys cut code well enough, but they know nothing about our business processes.

We are stifled on 3270 and can't meet demand because it takes too long to deliver any application changes. We won't collaborate properly unless we can all use Eclipse.

My mainframe suppliers won't change their pricing, so we need to find a more cost effective way of running the business. We need to stop spending nearly all our Op Ex on just keeping the lights on.

We are running short of batch processing time and soon enough we won't be able to run end-of-month in time – the upgrade will cripple us.

My mainframe environment is costly because I need experts just to run the environment. We need to find ways to meet our Service commitments which are harder than ever.

Talent management is the #1 priority for corporate leaders, up from third on the list last year” - PWC

My mainframe environment can't support the new front-end back-end architecture we're developing. We don't have access to all the front-end development tools. All our testing is manual right now. We need to find ways to meet our Service commitments which are harder than ever.

Testing is hugely expensive in human costs but also because it consumes over 50% of mainframe resources.

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My mainframe environment is costly because I need experts just to run the environment. We need to find ways to meet our Service commitments which are harder than ever.

I only have a couple of applications that need this old environment but I’m paying a fortune for it each year. We need to fix this.
## Development Theme
### Common Issues – see across the industry

<table>
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<th>Common Issue</th>
<th>What we are seeing</th>
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<tr>
<td>Mainframe Infra-structure limitations</td>
<td>Aging Infra-structure, capacity constraints, reliance on limited resources</td>
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<tr>
<td>Lack of programmer productivity</td>
<td>Non integrated green screen environments, developer downtime, limited work, cannot move to Agile</td>
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<tr>
<td>Improving application quality</td>
<td>Lack of application knowledge, limited test capacity and test tools, no prototyping</td>
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<tr>
<td>Addressing the skills gap</td>
<td>Aging programmer population, lack of mainframe skills, difficult to cross skill and attract new talent</td>
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Enterprise Application Development Modernization
Micro Focus Enterprise Developer is a Windows based enterprise application development environment.

### Highlights
- Eclipse or Visual Studio 2010 based IDE
- Unified enterprise COBOL and PLI development support
- Windows based debug and unit test productivity tools

### Benefits
- Industry standard IDE supports rejuvenation of skills pool
- Reduce development costs and reliance on aging infra-structure
- Improve developer productivity by 40%
Micro Focus Enterprise Developer
Product variants

Enterprise Developer

• Single user entry level product
• Analysis, smart edit and compile
• Lite touch development environment for
  • Code verification
  • Emergency change

Enterprise Team Developer

• Full local analysis edit, compile, debug and unit test capabilities
• Team working for sharing source, data and load libraries
• Central administration to support development teams
  • Focus developers on coding
  • Easy to standardize configuration
Industry Standard IDE focused on improving programmer productivity
Easy to use and cross train programmers
Unifies mainframe and contemporary language development
Supports composite application development and unit testing

Micro Focus Enterprise Team Developer
Key technologies
Micro Focus has over 30 years leadership in providing IBM mainframe compatibility and development process improvements.

Mainframe Subsystems Support

- JCL and JES support for testing of batch applications, including support for commonly used mainframe utility programs
- VSAM and QSAM support allows testing against EBCDIC data files on Windows
- DB2 support with "SQL Option for DB2" – a DB2 compatible database, or connect to IBM DB2
- CICS transaction system support including an integrated EXEC CICS precompiler to support command level CICS and a macro generator for BMS screen maps
- IMS transaction manager (IMS/TM) and database manager (IMS/DB) support, with integrated EXEC DLI pre-compiler for IMS DB API support and support for MFS screen maps

Micro Focus Enterprise Developer
Key technologies

Application Language Support

- COBOL compiler compatible with all major IBM language versions, including Enterprise COBOL for z/OS
- Open PL/I compiler supporting mainframe PL/I applications migrated off the mainframe
- Assembler programs or sub-routines can be built and linked for use in pre-production testing
Micro Focus Enterprise Developer
Key technologies

Application modernization

- Develop .NET/JVM extensions as part of application modernization
- Open up new deployment options – Web, Mobility, Cloud, and more.

Developer Tools

- Configurable compilation to control program behaviour and application output
- Mainframe source access directly from the IDE
- Data Editing comprehensive data editing and creation
- Build automation supports mass compiles to ensure synchronization of source and load libraries

Unit Testing Tools

- Unit test capability of online or batch applications in local developer execution environment
- Test configuration to support testing against different code levels
- Test coverage reporting built in to ensure that all code paths have been executed during testing.
A unified solution
Many corporate issues

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<th>Key challenges</th>
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A unified solution
Whatever your journey, wherever your destination
Questions