Micro Focus Enterprise Sync delivers fast, efficient change management for mainframe development teams. By replicating mainframe source code to a distributed software configuration management platform, Enterprise Sync increases the effectiveness of parallel application development activities. Modern GUI-based tooling improves code change through automation, increased visibility and simplified conflict and change resolution. Changes made to the distributed source management platform synchronize automatically with the mainframe software change management system. This ensures software change and configuration management processes and mainframe application source code remain the primary system of record.

Product Overview
Enterprises must move faster than ever before to compete in a rapidly changing digital business climate. At the heart of many of these organizations are business-critical applications running on IBM mainframes. They deliver the performance and reliability the business demands. However, these core systems often rely on older technologies and rigid development practices. These can be out of step with the modern development techniques needed to deliver market services customers now demand.

Change management in mainframe teams is typically built on Software Change and Configuration Management (SCCM) tools such as CA Endevor and Micro Focus ChangeMan ZMF. These are the backbone of mainframe delivery processes. However, as contemporary parallel development activities scale up to support new business requirements, inefficient mainframe tools can create a significant bottleneck when merging or retrofitting changes across different development streams. Adding mainframe capacity to support further development and test cycles is one approach, but can be cost-prohibitive. Organizations require an enterprise solution to enable fast, efficient development at scale while managing Mainframe resource and cost.

Micro Focus Enterprise Sync delivers modern, efficient change management for mainframe development teams. By replicating mainframe source code to a distributed software configuration management platform, Enterprise Sync manages parallel mainframe application development activities effectively and efficiently. Modern GUI-based tooling enables developers to manage code change through automation, visualize code-based development streams, manage merge conflicts and simplify code change retrofitting. Changes made on the distributed source management platform are automatically synchronized with the mainframe SCCM tool, ensuring the mainframe remains the primary system of record.

<table>
<thead>
<tr>
<th>System Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>• CA Endevor version 1.16 or later</td>
</tr>
<tr>
<td>• Micro Focus Enterprise Developer</td>
</tr>
</tbody>
</table>
Key Benefits

- **Increased efficiency:** Developer efficiency can be increased by up to 30% by working directly from a modern Eclipse-based development IDE and using modern tools for automated code merge and code change visualization.

- **Reduced mainframe reliance:** Integration with Windows-based Continuous Integration and access to mainframe test regions running on Micro Focus Enterprise Test Server ensures improved delivery without additional mainframe resources.

- **Improved quality:** Removing error-prone manual processes for retrofitting changes across different parallel source streams reduces the risk of introducing errors.

- **Accelerated developer adoption:** By integrating and synchronizing with current mainframe delivery processes and source hierarchies, Enterprise Sync offers an easy-to-learn improvement to tried and trusted practices.

Feature Overview

**Accelerate Development and Delivery**

Simple, effective graphical tools can drive all aspects of source code management. Enterprise Sync supports advanced merge and change tracking, enabling developers to easily merge code changes, from the straightforward to the very complex, with a high degree of confidence. Reducing manual merge processes results in fewer broken builds or testing errors from failed merges or retrofits.

With built-in best practices to support private development workspaces, developers using Enterprise Sync can perform all merge operations in isolation, thus protecting the ‘known-good’ configurations. Developers can view graphically full historic versions of source code for any source file for quick comparisons. This improves the efficiency of code reviews, accelerating delivery.

**Extend Code Management**

Enterprise Sync can mirror the entire mainframe development process. Because the process is visually represented, users can easily see where active changes and merge changes to other stages in the development process.

Traditional code branches can be hard to manage and costly in both time and administration, so Enterprise Sync uses stream-based architecture. This ensures faster delivery of code changes and enables better control when promoting changes up the stream hierarchy.
Streams, like branches, enable the effective management of independent code-configurations. Changes flow from stream to stream in a fraction of a second, enabling faster delivery of changes over traditional branches. Development streams can also effectively model complex development workflows and delivery processes to support large parallel development efforts more easily. Also the representation of the stream-based approach is familiar to developers used to working within mainframe software change and configuration management—and this means faster adoption in the new tooling.

**Synchronize**

The automatic synchronization with the mainframe SCCM system enables mainframe customers to adopt more Agile development processes and tooling, while preserving mainframe source integrity and current software configuration management processes.

- Manage synchronization centrally through a console. This enables users to define and manage the mainframe and distributed source repositories. Connections can be bi-directional or just synchronized with changes on the master mainframe repository.

- Synchronizing source metadata enables developers to access and use version history information from modern GUI tools, visualizing changes and easily comparing sources at different levels in the hierarchy.

- Mainframe changes, for example in Emergency code streams, are automatically visible to developers accessing the source code maintained in the distributed environment, enabling earlier testing in the cycle.

- Using automatic synchronization, developers can work on source versions managed directly on the mainframe or in the distributed source repository as changes will be synchronized between the two systems.

**Complementary Enterprise Products**

Enterprise Sync is part of the Micro Focus Enterprise Portfolio which includes:

- **Micro Focus Enterprise Analyser**: A comprehensive solution for understanding application portfolios. It provides a centralized repository offering technical insight into application inventory, structure and dependencies, while providing insight into the impact of change across enterprise systems.

- **Enterprise Developer for z Systems**: A full-function mainframe development environment for Eclipse or Visual Studio. It offers developers modern tools to develop, compile, debug and test applications on or off the mainframe with no wait times or resource contention.

- **Enterprise Test Server**: A mainframe application test execution environment on Windows offering mainframe testing on low cost commodity hardware. Test capacity can be scaled up on demand to easily to meet business-driven delivery timelines.