

---

## MIDRANGE DYNAMICS

providing innovative IBM i solutions

---



---

**Application Navigation System**  
for IBM i

---

[www.midrangedynamics.com](http://www.midrangedynamics.com)



MIDRANGE DYNAMICS

MDXREF

# MDXREF - Application Navigation System for IBM i

## MIDRANGE DYNAMICS GMBH

Zugerbergstrasse 4  
P.O. Box 19  
CH-6301 Zug, Switzerland  
Tel. +41 (41) 710 27 77  
Fax +41 (41) 710 95 87  
info@midrangedynamics.com  
www.midrangedynamics.com

**MDXREF is a powerful, time-saving tool that tracks and reports on the inter-relationship of all files and objects in application libraries on an IBM i (iSeries, AS/400) system. This is an important cross-referencing tool for a company performing ongoing modifications or if the company is responsible for issues found in an application.**

MDXREF takes less than 1 hour to install/re-install and comes with an easy-to-use set of interactive programs that provide whatever type of cross-referencing information the user is looking for. The information may also be printed to a report or viewed electronically. Also, if purchasing MDCMS with MDXREF, application changes are automatically captured for the MDXREF database, and all related objects may be requested for modification at once.

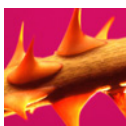
### File Referencing

- all fields defined for a file
- the sort sequence of a file
- the data contained in the file
- logical file indexes over a physical data file
- automated file overrides or copies to other files
- display/printer file field references to other files
- all programs that use a file and how the file is used
- all queries using a file
- CL programs using files with FMTDTA or OPNQRYF commands

## MIDRANGE DYNAMICS PRODUCTS:



**MDCMS -  
Change Management System  
for IBM i:**  
Modify, install, and distribute  
application changes.



**MDSEC -  
Application Security System  
for IBM i:**  
Easily secure the functions of  
your in-house applications

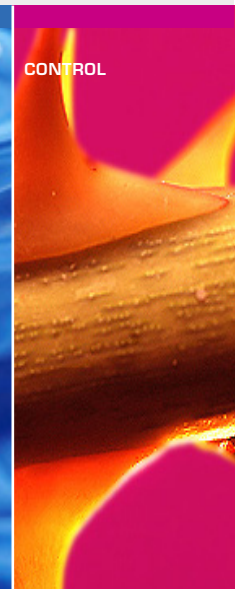
## STRUCTURE



## FLOW



## CONTROL



---

## CLIENTS

---

AXA Winterthur

---

Credit Suisse

---

Daimler

---

Helvetia Seguros

---

Migros Pensionskasse

---

REHAU

---

SANITAS Healthcare

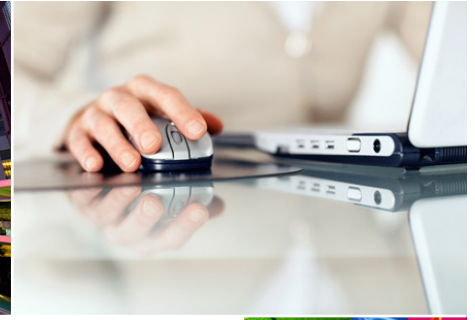
---

Segur Caixa

---

UBS

---



# MDXREF

Application Navigation System  
for IBM i

---

### Process flow

- all programs calling a program, command, or query
- all commands invoking a program
- all menus calling a program, command, or query
- reporting facility to show the entire process flow of an application as well as all files used by the process flow

### Comparison functions

- compare libraries to check for missing or duplicate objects within or across applications
- compare objects to check for differences
- compare file formats
- compare the actual data stored in files

### Journal analysis

- view all updates to data in a customizable, easy-to-read format
- filter the updates by user, program, date, or field values

---

### Other highlights of MDXREF

- automatically identifies all database and program references system-wide
- allows for logical subsets of cross-reference information by application
- supports ALL IBM i programming languages
- All information may be displayed or printed. Many reports may also be electronically exported in text or Microsoft Excel format.
- very easy to use
- can be used to greatly assist in all other application changes

[www.midrangedynamics.com](http://www.midrangedynamics.com)



## MIDRANGE DYNAMICS GMBH

Zugerbergstrasse 4  
P.O. Box 19  
CH-6301 Zug, Switzerland  
Tel. +41 (41) 710 27 77  
Fax +41 (41) 710 95 87  
info@midrangedynamics.com  
www.midrangedynamics.com



MIDRANGE DYNAMICS  
Since 1998



Design: red Gráfica / Palma de Mallorca - Zürich

# FACTS

## About Midrange Dynamics

Midrange Dynamics' tightly integrated and reasonably priced product line focuses on change management, application analysis, development and software distribution. The company has provided application development software and consulting services for IBM i (iSeries, AS/400) systems from its headquarters in Switzerland since 1998. In addition to on-site product support and training, it offers consulting services in the area of change management. Recognized for ease of use and reliability, Midrange Dynamics' application lifecycle management solution dramatically reduces the time and risk involved in understanding, changing and migrating application objects. It fully supports regulatory compliance efforts.  
[www.midrangedynamics.com](http://www.midrangedynamics.com)

## Products

- Our product line focuses on application analysis, development and distribution. These tools dramatically reduce the time and risk involved in understanding, changing and migrating application objects.
- We provide on-site product support and training.

## Services

- We have consultants available for projects of any duration. All of our consultants have many years of practical experience and are qualified to work on a wide variety of hardware platforms in many business sectors.
- In addition to support and training for MD products, we can provide consultants for the following (partial list): IBM i programming/analysis using COBOL, RPG, C, ILE; SQL interface programming between UNIX, PC, and IBM i systems; LAN administration, training and support; project management and business analysis for the financial sector.

# BLACKBOARD

- Midrange Dynamics announces the availability of MDWorkflow, an extension of MDCMS change management. MDWorkflow is a flexible, web-based application for centrally managing projects, tasks, object deployment and structured workflow across all systems. It facilitates team collaboration and ensures a documented and well communicated software development process throughout your organization.
- One of the world's largest utility companies has licensed MDCMS to efficiently and securely manage changes to all of its IBM i applications.
- Midrange Dynamics is pleased to announce the availability of the new MDOpen plug-in for MDCMS. MDCMS and the new MDOpen plug-in provide every function necessary to manage application changes for IBM i and multiplatform environments, including UNIX, LINUX, Domino and .net development. MDCMS and MDOpen can be used with any Eclipse-based platform.
- Distributed Data Management (DDM) Security in MDSEC 6.6 can exclude unauthorized users and manage which data objects may be accessed or manipulated via DDM.
- A large Swiss Bank with local presence in Europe, Latin America, the Middle East and Asia licensed MDCMS to manage and distribute updates for its Olympic Banking applications.
- The latest version of MDCMS, which handles Open Platform objects using the graphical Eclipse IDE, began intensive testing at a large customer installation.
- One of the largest banks in Spain with strong presence in Latin America licensed MDCMS to manage and distribute updates for its Midas Banking applications.

## MDXREF - Application Navigation System for IBM i

©MIDRANGE DYNAMICS 2013