



## APPLICATION LIFECYCLE MANAGEMENT AND SUPPORT OF RPG CODE CONVERSION TO FREE-FORMAT

### TD/OMS and RPG Toolbox Integration

TD/OMS enables complete control over the software lifecycle process, providing a real-time overview of software components and configuration. It incorporates fundamental IT business processes such as identification, configuration-, version-, release- and lifecycle-management, and software distribution and deployment.

RPG Toolbox greatly improves the productivity of developers who write and maintain software on IBM i. RPG Toolbox enables users to modernize RPG programs, write applications faster and maintain source code more effectively.

### RPG Toolbox:

- Updates RPG source code with the most up-to-date syntax and style available for IBM i release.
- Reformats fixed-format operations into free format style.
- Uses BIFs to perform intelligent conversions with dissimilar field types and lengths.
- Redefines work fields from the calcs into the D specs.
- Converts case to lower, Mixed or UPPER.
- Adds semicolon delimiters to the end of free format operations.
- Converts asterisk (\*) comment designators to slashes (//) comment designators.
- Indents nested logic.

## > TD/OMS RPG Toolbox

### Integration

With RPG Toolbox integrated within TD/OMS, legacy applications maintained with Remain's application lifecycle management solution can easily be modernized to free-form RPG. The entire process takes place under the TD/OMS control, so all data is saved (TD/OMS stores the previous software version and keeps the track/history of modernized software for reporting purposes such as audit/SOX/ISO compliance).

Conversion to free-format allows significant reduction of time normally spent on software maintenance. It is a result of a more standardized and consistent source code.

"We are very pleased to be working with Remain Software. I'm certain that their application lifecycle management solution, TD/OMS is very robust and its integration with RPG Toolbox can be of great advantage for all IBM i users managing RPG applications"

Sean Gallagher  
Sales Director EMEA  
Linoma Software

### QUICK FACTS

- RPG source code modernized to the latest syntax.
- Standardized and consistent source code.
- More than 70 new programming tools.
- Reduced training time.
- New apps' features added quicker.

# Innovative DevOps solutions for IBM i for today and the future

## Before conversion

```
I.....PFFromTo++DFldmeLlMlFrPlMnZr.
I      DS
I      1 7 FIRST6
I      4 6 PREFIX
I      1 3 AREACD
I      1 10 PHONE

CLON01N02N03Factor1+++OpdcFactor2+++ResultLenDHHiLoEq
C      *LIKE DEFN AREACD WAREA
C* Retrieve customer record
C      CNBR CHAINCUSTMAS          99
C* Prepare values
C      MOVE *ZEROS XX
C N99 MOVE AREACD WAREA
C N99 EXSR PROCESS
C* Calculate
C      PROCESS BEGSR
C      ADD 1 XX 30
C      WAREA IFND *BLANK
C      XX MULT 100 NUMBER 61
C      SETON
C      END
C      ENDSR
```

## After conversion

```
DName+++++ETdsFrom+++To/L+++IDc. Keywords+++++
D PHONE DS
D FIRST6 10 OVERLAY (PHONE)
D AREACD 7 OVERLAY (FIRST6)
D PREFIX 3 OVERLAY (FIRST6:4)
D PREFIX 3 OVERLAY (FIRST6:4)
//
D WAREA S LIKE (AREACD)
D XX S 3 0
//FREE
// Retrieve customer record
CHAIN CNBR CUSTMAS;
*IN99 = NOT%FOUND (CUSTMAS);
// Prepare values
XX = *ZEROS;
IF *IN99 = *OFF;
WAREA = AREACD;
EXSR PROCESS;
ENDIF;
// Calculate
BEGSR PROCESS;
XX = XX + 1;
IF WAREA <> *BLANK;
NUMBER = XX * 100;
*IN61 = *ON;
ENDIF;
ENDSR;
//END-FREE
```

TD/OMS in combination with RPG Toolbox provides an unlimited number of conversions and software assets modernization according to customer needs. All relationships between newly converted code and other components and applications will be shown in TD/OMS.

The RPG Toolbox plug-in for Rational Developer for i (RDi) allows conversion to free-form and to indent free-form logic. It also allows preferred setup for a flexible control of conversion options. According to the user's needs, it is possible to convert entire source code to free-format, or particular blocks of code only.

There are four types of conversions that can be performed through the RPG Toolbox:

1. Convert RPG III and RPG/400 source code to modernized RPG IV syntax.
2. Update existing RPG IV source code to take advantage of the most modern syntax available for your IBM i release.
3. Convert RPG IV fixed-format calculation specifications to the free-form syntax.
4. Convert H, F, D and P specifications to the totally free-form syntax.

## 12 reasons to convert RPG programs with TD/OMS and RPG Toolbox

1. Unlimited number of conversions with one-time payment.
2. Streamlined compilation of new software.
3. Higher quality of applications, fewer bugs.
4. Easier application management.
5. Reduced software complexity.
6. Old version of an application can be easily stored - source code can be reviewed before and after the conversion.
7. Improved maintainability of apps with standardized and consistent source code.
8. Increase in code usability and readability.
9. Money and time savings.
10. Easier to find engineers developing in modern languages.
11. Convert to free-form and to indent free-form logic.
12. Flexible control of conversion options (conversion of entire source code or blocks only).

In cooperation with 

*We're prepared for your next step*

**CONTACT US NOW TO LEARN MORE**

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