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# Conversion Project Description

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## Project Definition

### Initial setup:

At the start of the project agreement is established on various topics, including:

- Project management processes
- Target dates and milestones
- **m2o** responsibilities
- Company responsibilities
- Test data provision
- Testing criteria

## Data Conversion

### Datacom Dataview Definitions:

As a first stage in the conversion process, m2o will take your Datacom dataview definitions as the basis for generating equivalent SQL table and view definitions. These are then used to generate Datacom CA-IDEAL unload programs and COBOL SQL load programs. COBOL copy files for the data definition of host variables are also generated.

Both these sets of programs are then tested and refined, to ensure that any application or operating environment issues are dealt with correctly.

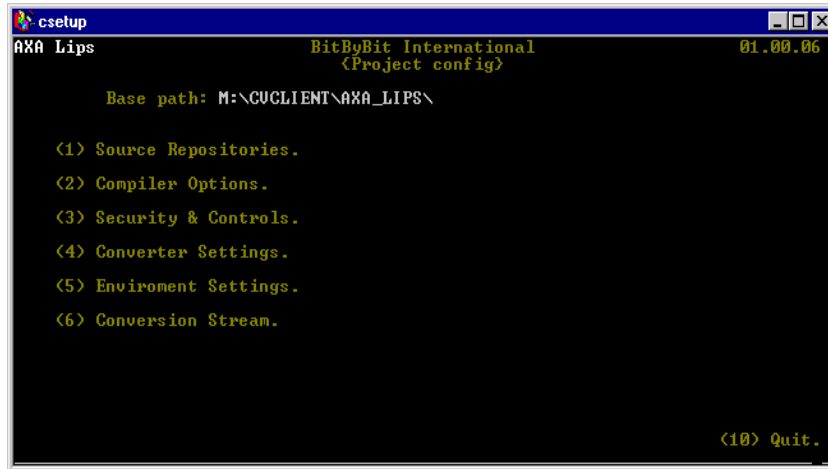
## Data Dictionary

The basis for conversion of program code is the m2o Data Dictionary. This gives a complete picture of all data name references in the application together with details of each data element, such as data type, length, structure and value.

## Configuring the Conversion Environment

The I2C conversion environment supports many destination platforms and source format options. The conversion environment is totally configurable.

### CONFIGURATION MAIN MENU



```
csetup
AXA Lips                               BitByBit International          01.00.06
                                       <Project config>

Base path: M:\CUCLIENT\AXA_LIPS\

<1> Source Repositories.
<2> Compiler Options.
<3> Security & Controls.
<4> Converter Settings.
<5> Environment Settings.
<6> Conversion Stream.

<10> Quit.
```

m2o will configure the conversion software to match the individual clients requirements. Such options include support for the use of the mouse pointer and user definable screen colours.



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## CONFIGURABLE CONVERSION STREAM

```
csetup
AXA Lips                               BitByBit International 01.00.06
                                       <Project config>

Seq  Program      Parameters      Description
01  CUBKOT        /P%F1 /A       Book out IDEAL source
02  CUGENCFG      %F1            Generate Configuration
03  CUPGM.BAT    %X %F1 %EA     Convert PROGRAM
04  CUERHDR      /P%F1Q %EB     Version header PROGRAM
05  CUNAME.BAT   %F1Q %D %W     Create Move by Name
06  CUCOPY       /P%F1 %EB      Insert Program copybooks
07  CUPNL.BAT   %X %F2 %EA     Convert PANEL
08  PNLFIX      /P%F2 %EA     ** PANEL Fixup
09  CUERHDR      /P%F2Q %EB     Version header PANEL
10  CUCOPY       /P%F2 %EB      Insert Panel copybooks
11  CURPT.BAT   %X %F3 %EA     Convert REPORT
12  CUERHDR      /P%F3Q %EB     Version Header REPORT
13  CUCOPY       /P %F3 %EB     Insert Report copybooks
14  CUBKIN       /P%F1 /B       Bookin converted source
15  CUBKOT       /P%F1 /B /S    Bookout cobol source

<Enter> Continue, <1> Stream Help,           <10> Quit.
```

By changing the components that make up the conversion stream we are able to format the generated source code in accordance with the client's requirements.

Such configuration options include the insertion of generated copy code and version control information.





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## The Conversion Environment

Once the converter has been configured there are three steps in performing the conversion. All of these steps are function key driven from the I2C main menu.

### CONVERSION ENVIRONMENT

```

I2C
AXA Lips                               BitByBit International          01.00.05
                                       (I2C)
Program:
AGTI000      05/10/2001 02.00.00      730      Awaiting Conversion
AGTI005      05/10/2001 01.00.00        23      Awaiting Conversion
AGTI010      05/10/2001 27.00.00     2151      Awaiting Conversion
AGTI020      05/10/2001 15.00.00     1827      Awaiting Conversion
AGTI030      05/10/2001 11.00.00     2310      Awaiting Conversion
AGTI040      05/10/2001 07.00.00     1005      Awaiting Conversion
AGTI045      05/10/2001 16.00.00     1862      Awaiting Conversion
AGTI050      05/10/2001 03.00.00      498      Awaiting Conversion
AGTI060      05/10/2001 05.00.00      219      Awaiting Conversion
AGTI070      05/10/2001 13.00.00      917      Awaiting Conversion
AGTI075      05/10/2001 21.00.00     1545      Awaiting Conversion
AGTI080      05/10/2001 30.00.00     1539      Awaiting Conversion
AGTI090      05/10/2001 09.00.00     1131      Awaiting Conversion
AGTI100      05/10/2001 10.00.00      999      Awaiting Conversion
AGTI110      05/10/2001 09.00.00      978      Awaiting Conversion
AGTI120      05/10/2001 07.00.00      904      Awaiting Conversion
AGTI130      05/10/2001 10.00.00      968      Awaiting Conversion

<1> Load, <2/3> BookOut/In, <5> Show, <6> Logs, <7> Send,
<8> Reporting,                               <10> Quit.

```

### LOADING THE CA-IDEAL SOURCE

```

I2C
NWN                               BitByBit International          01.00.06
                                       (Book-In source)
Filename:
ARA000A      04/10/2001 16:53:28      6KB      Loaded      04/10/2001 10.00.00
ARA100A      04/10/2001 16:53:28      9KB      Re-Loaded  04/10/2001 11.00.00
ARA112A      04/10/2001 16:53:30     10KB      Re-Loaded  04/10/2001 02.00.00
ARA114A      04/10/2001 16:53:30     10KB      Re-Loaded  04/10/2001 08.00.00
ARA115A      04/10/2001 16:53:30     10KB      Loaded      04/10/2001 09.00.00
ARA121A      04/10/2001 16:53:30     14KB      Loaded      04/10/2001 02.00.00
ARA125A      04/10/2001 16:53:30     15KB      Loaded      04/10/2001 02.00.00
ARA126A      04/10/2001 16:53:30     15KB      Loaded      04/10/2001 03.00.00
ARA141A      04/10/2001 16:53:30     14KB      Loaded      04/10/2001 06.00.00
ARA141B      04/10/2001 16:53:32      7KB      Loaded      04/10/2001 02.00.00
ARA142A      04/10/2001 16:53:32     12KB      Loaded      04/10/2001 04.00.00
ARA142B      04/10/2001 16:53:32      7KB      Loaded      04/10/2001 02.00.00
ARA143A      04/10/2001 16:53:32     13KB      Loaded      04/10/2001 04.00.00
ARA143B      04/10/2001 16:53:32      7KB      Loaded      04/10/2001 02.00.00
ARA200A      04/10/2001 16:53:32      6KB      Loaded      04/10/2001 03.00.00
ARA210A      04/10/2001 16:53:34     15KB      Loaded      04/10/2001 02.00.00
ARA210B      04/10/2001 16:53:34      5KB      Loaded      04/10/2001 03.00.00

Enter mask, <5> Show files                               <10> Quit.

```





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The load screen, which is accessed by pressing function key one from the main menu, shows all of the source files that have not yet been loaded or if there is a later version of the source that is to be loaded.

## CONVERTING THE SOURCE

```
I2C
AXA Lips                               BitByBit International          01.00.06
                                       <Conversion..AGTI000>
Starting..Book out IDEAL source
Completed..Book out IDEAL source
Starting..Generate Configuration
Completed..Generate Configuration
Starting..Convert PROGRAM
```

To initiate the conversion process the user may enter an optional mask, which is used to determine the files that are to be converted. By pressing function key four, from the main I2C menu, the user may start the conversion.

## CONVERSION LOGS

```
I2C
AXA Lips                               BitByBit International          01.00.01
                                       <Conversion Logs>
Filename: _____
DRUI000      05/10/2001 15:53:48      Logfile Available
DRUI010      05/10/2001 16:24:00      Logfile Available
LL220159     04/10/2001 13:22:00      Source Loaded Logfile
LL233173     04/10/2001 13:23:30      Source Loaded Logfile
LL235633     04/10/2001 13:23:56      Source Loaded Logfile
LL294050     04/10/2001 13:29:40      Source Loaded Logfile
LL423260     05/10/2001 15:42:20      Source Loaded Logfile

<1> View Logs or Enter mask and <5> Show files
<10> Quit.
```





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Using function key six, from the I2C main menu, it is possible to review the I2C generated log files. These contain information relating to problems that arise while loading CA-IDEAL source into the conversion environment. These may include missing source files, etc.

When a CA-IDEAL program is converted the system generates a log file for each program. These log files contain information relating to any errors encountered during the conversion process.

Using function key seven, from the I2C main menu, the user has the option to extract all successfully converted source from the conversion environment into a ZIP file.

CONVERTED  
CODE

```
I2C
Univ Redried                               BitByBit International           01.00.01
                                         <Send Coverted>
ZIP: Univ_redried_011009

AGTI200      04/10/2001  40.00.01           Waiting to send
AGTI210      04/10/2001  17.00.01           Waiting to send
AGTI220      04/10/2001  15.00.01           Waiting to send
AGTI221      04/10/2001  01.00.01           Waiting to send
AGTI230      04/10/2001  24.00.01           Waiting to send

<1> Send Programs,                               <10> Quit.
```



## JCL

m2o technical staff will help and advise the client's staff in the conversion of any JCL that may be required.

## Unit & System Testing

Prior to the despatch of converted code to the client, m2o staff normally perform unit testing. Any problems that relate to the conversion process, encountered during the system testing performed by the client, should be reported to m2o and accompanied by a test script which will allow m2o technical staff to re-create the problem.

## Hardware and Software Requirements

m2o and the customer need to establish similar environments to eliminate site-specific problems. This will largely be accomplished during the pilot phase, however a number of areas may need to be verified:

- Terminal emulation software must be the same.
- The different monitors used by the customer must be available at m2o's site.
- Data must be easily transferable between MVS and the target platform/RDBMS (it is suggested that test files are transferred as soon as possible).
- m2o needs to know the exact versions of the target databases and languages.

## Responsibilities

**THE CLIENT** The customer will need to assign certain staff, equipment and expertise to the project. The client's responsibilities will include, but not be limited to:

- Export the programs, panels and reports from CA-IDEAL.
- Export the BTG and Dataview definitions from CA-Datacom.
- Export COBOL programs and associated copybooks.
- Verify and approve the Oracle table definitions created by m2o.
- Import, compile and run the data extract programs.
- Run the data load programs on customer's testing machines.
- Be responsible for establishing a testing environment, including user accounts, database environments, network access.
- Provide test scripts for m2o testers.
- Test the programs in a timely manner.
- Provide error reports to m2o staff during testing.
- Provide system programmer and DBA support when required.
- Provide application users for questions and testing.
- Provide documentation where available.
- Provide COBOL programmers for training.
- Adjust MVS JCL scripts based on m2o example shell scripts.
- Establishment of parallel test and production implementation procedures.

**M2o LIMITED** m2o's responsibilities will include:

- Creating the target table, view and index definitions based on information provided by the customer.
- Creation of unload and load programs to migrate the data, including identifying any existing data errors.
- Adjust the load programs to handle data errors subject to specification by the customer. For example if invalid dates exist what action should occur to these occurrences will be specified by the customer and included in the load programs.
- Conversion of CA-IDEAL programs, panels and reports.
- Conversion of DBNTRY programs
- Establishment of a mirror system at m2o's offices for testing and development when required.
- Providing base and template shell scripts to replace MVS JCL scripts.
- Provide replacement modules to the CA-IDEAL built-in functions.
- Provide advice on implementation considerations.

## About m2o

### Automated CA-Datcom Migration and Conversion

m2o is a leading provider of data migration and application conversion solutions that unlock the value of relational databases and legacy systems. m2o specializes in transforming legacy applications, including automated conversions from CA-IDEAL to open languages such as COBOL and Java and migrations from CA-Datcom to open databases such as CA-Ingres, Oracle, DB2 and SQL Server. m2o provides automated conversion tools and migration services that offer wide platform coverage, exceptional accuracy and clear Return on Investment that are unmatched by any other vendor or solution. m2o has over ten years experience with a worldwide customer base of blue-chip organizations that benefit from its unique expertise and automated tools.

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