



# Refreshing **POWER** !



## Manual

i4XML

[Exposé](#)

This document explains the commands and parameters in the product i4XML

---

In this manual the following commands are documented one by one:

- + CRTGENMAP
- + EXTXMLDTA
- + GENXML
- + PARSEXML
- + PARSEXMLB
- + WRKPARSE
- + WRKHRY
- + EVALXML
- + MULTIPARSE
- + CPYPRSMAP
- + RSTPRSMAP
- + WRKGENMAP
- + MERGEXML

---

## Command: CRTGENMAP

With this command a Mapping is created, which contains all information that is needed to extract data and create XML output with the command EXTXMLDTA.

---

The command CRTGENMAP has the following parameters:

---

TAGNAM	XML Tag Mapping Name Name of a previously defined Mapping *CREATE            Brings up Dialog to develop a new mapping. *DEFAULT           Generates a standard mapping without dialog. *SELECT            Shows a list of exiting Mappings to select and so Re-Generate.
INPUTTYPE	Input Object Type Defines the type of input file. *QRYDFN            Input is an existing Query Definition. *FILE                Input is a single file. *MAPQRY            Input is a special, with i4XML created Query-Mapping file.
QBJNAME	Object Name Name of the Object. This depends on the OBJTYPE parm.
QBJLIB	Object Library Name Library of Input Object
HIRDEF	XML Hierarchy Definition Name Name of a XML Hierarchy (Defined by WRKHRY)

---

The command CRTGENMAP has the following parameters:

---

TMPXML	Template XML Refers to a XML file that allows a F4-Function at field level.
RUNOPT	Replace Controls whether an existing mapping will be overwritten. *YES                      In case the Mapping does already exists, it will be overwritten. *NO                        If the Mapping already exists the processing will be stopped.
MAPOPT	Mapping Load Error Action This parameter defines what should happen in case of mapping loading errors. *BREAK                    Processing will be cancelled in case of errors. *IGNORE                  Errors will be ignored.
TAGSOURCE	Source of Tagnames When a new mapping is created, i4XML determines the XML tag names either from the text of the file field description or from the field names itself. *TEXT                     XML tag names are determined from the text of the file field description, i.e. "customer name" results in "<customer_name>" *NAME                     XML tag names are determined from the field names itself, i.e. "CUSTNM" results in "<CUSTNM>"

---

## Command: EXTXMLDTA

With the command EXTXMLDTA the XML generation and executed based on a predefined generator mapping (refer CRTGENMAP command).

The command EXTXMLDTA has the following parameters:

---

TAGNAM	XML Tag Mapping Name Name of the XML Mapping, created with CRTGENMAP.
PATH	Path of XML Name of the XML file to be generated incl. path in exact IFS-Names, i.e. /home/xml/sampleoutput.xml
GENDTD	Generate DTD Controls whether a DTD (XML file description) is to be generated. *INT DTD is generated internally, meaning within the newly generated XML file. *EXT DTD is generated externally, in a separate file (to be entered at parameter DTDPATH). *WEB A reference to an existing URL is generated into the XML file. At parameter DTDPATH a complete URL can be assigned. *NO No DTD.
FTP	Transfer by FTP Controls whether the generated file should be transferred to an Server by FTP *YES *NO
REPLACE	Replace File Controls whether an existing file will be overwritten. *YES *NO

---

The command EXTXMLDTA has the following parameters:

---

DTDPATH	DTD File Name of the DTD file to be generated incl. path in exact IFS-Names, i.e. /home/xml/sampledesc.dtd
FTPTOF	To FTP Path Path where the file has to be FTP-ed to.
RMTSYS	FTP Server Name of the FTP-Server *INTNETADR            Instead of a server name an IP-address is to be used. (Special value)
INTNETADR	IP address
USRID	FTP-User
PASWRD	FTP-Password
XSLPATH	Path of XSL This parameter can be used to reference a XSL file.
SLTRCD	Additional WHERE Criteria Additional WHERE condition, which must be syntactically correct SQL.

The command EXTXMLDTA has the following parameters:

---

MASTTAG	MASTER Tag Tag name, which leads the XML structure. *DEFAULT            A standard name is inserted. *NONE                No name is inserted. The tag is determined from the structure.
HEADING	Heading Data that is to put to the Head of the XML.
RECLVLTAG	Record Level Tag Tag name that leads each record. *DEFAULT            A standard name is inserted. *NONE                No name is inserted. The tag is determined from the structure.
USESCH	Use Existing Schema For XML files which references the special Schema files, i.e. x-schema:OpenShipments.xdr" *NONE                No Scheme to be used. *NOHEAD             No XML-Head is generated. Use this to generate XML parts which can later be combined. See command MERGEXML for more informations on this.
SOXTYPE	SOXTYPE Enables the SOXTYPE-Mode, which does not start with "<?xml..." but with "<?soxtype..."
XMLENC	Encoding Encoding entries. *DEFAULT            A standard entry is inserted: encoding="ISO-8859-1"

---

The command EXTXMLDTA has the following parameters:

---

DECFMT	Decimal Format Controls the decimal comma. ", "                    Decimal indicator is a comma. "."                    Decimal indicator is a period.
I4CLIENT	Start i4Client Controls the communication with the Windows-Client "i4Client". This can be used for opening the output file directly at the Windows session. *LOCAL                A transfer on the local PC will be started. *NONE                i4Client will not be used. *LOCALSUI            Special mode for infor's BRAIN AS
ONE2ONE	One Input Record to one struct Controls whether each input record should result in one XML structure, regardless of whether there are any structures defined. *YES *NO
UCCSID	Use CCSID Special use of CCSID or Codepage. *DEFAULT            The current CCSID is used.
GENTYPE	Generator Type Type of the generator. *DOM                Standard method with IBM API. *OWN                Own method (about 50x faster).
JSONRCD	# of Record for JSON For JSON Output this controls the number of records to put into one JSON file.

---



---

## Command: GENXML

With the command GENXML a XML file can be generated from a physical file without a dialogue or a predefined mapping. For a detailed processing use the CRTGENMAP command.

---

The command GENXML has the following parameters:

---

SCRIPT	XML Script Name Name of the XML file to be generated incl. path in exact IFS-Names, i.e. /home/xml/sampleoutput.xml
OBJTYP	Data Object Type Defines the type of file. *QRYDFN            Input is an existing Query Definition. *FILE                Input is a single file. *MAPQRY            Input is a special, with i4XML created Query-Mapping file.
OBJNAM	Query Name / Library Name of the Query. Only valid for OBJTYP(*QRYDFN)
OBJNAM1	File Name / Library Name of the Input file. Only valid for OBJTYP(*FILE)
OBJNAM2	MAPQRY Name Name of the mapping. Only valid for OBJTYP(*MAPQRY)
TAGNAM	XML Tag Mapping Name Name of the Tag-Mapping *DEFAULT            A standard script will be generated.

---

The command GENXML has the following parameters:

---

<b>GENDTD</b>	<b>Generate DTD</b> Controls whether a DTD (XML file description) is to be generated. *INT DTD is generated internally, meaning within the newly generated XML file. *EXT DTD is generated externally, in a separate file (to be entered at parameter DTDPATH). *NO No DTD.
<b>INTNETADR</b>	IP address
<b>USRID</b>	FTP-User
<b>PASWRD</b>	FTP-Password
<b>UCCSID</b>	Use CCSID Special use of CCSID or Codepage. *DEFAULT The current CCSID is used.
<b>SLTRCD</b>	Additional SELECT Criteria Additional WHERE condition which must be syntactically correct SQL.
<b>MASTTAG</b>	MASTER Tag Tag name that leads the XML structure. *DEFAULT A standard name is inserted. *NONE No name is inserted. The tag is determined from the structure.

The command GENXML has the following parameters:

---

RECLVLTAG	Record Level Tag Tag name that leads each record. *DEFAULT            A standard name is inserted *NONE                No name is inserted. The tag is determined from the structure.
RMTSYS	Remote System Name of the FTP-Server *INTNETADR *INTNETADR            Instead of a server name an IP-address is to be used. (Special value)
XMLENC	XML Encoding Encoding entries. *DEFAULT            A standard entry is inserted: encoding="ISO-8859-1"
USESCH	Use Existing Schema For XML files. Refers to special Schema files, i.e. x-schema:OpenShipments.xdr *NONE *NOHEAD
FTP	Transfer by FTP Controls, whether the generated file should be transferred to a server by FTP. *YES *NO
MAPOPT	Mapping Load Error Action Controls what should happen when an error occurs during the load process of the mapping. *BREAK                Processing will be cancelled in case of errors. *IGNORE                Errors will be ignored

---

The command GENXML has the following parameters:

---

I4CLIENT	<p>Start i4Client</p> <p>Controls the communication with the free Windows-Client i4Client This can be used after the generation of the Excel table for starting a download in the temporary windows-directory and for opening the table with Excel.It is planned to can call any PC in the network in future versions. This functionality can be provided on request. This parameter is mandatory.</p> <p>*LOCAL                    A transfer on the local PC will be started.</p> <p>*NONE                    i4Client will not be used.</p> <p>*LOCALSUI                Special mode for infor's BRAIN AS</p>
FTPPTOF	<p>To FTP Path</p> <p>Path where the file is to be FTP-ed to.</p>
RUNOPT	<p>Replace</p> <p>Controls whether an existing script is to be overwritten</p> <p>*YES</p> <p>*NO</p>
TAGSOURCE	<p>Source of Tagnames</p> <p>When a new mapping is created, i4XML determines the XML tag names either from the text of the file field description or from the field names itself.</p> <p>*TEXT                    XML tag names are determined from the text of the file field description                    i.e. "customer name" results in "&lt;customer_name&gt;"</p> <p>*NAME                    XML tag names are determined from the field names itself, i.e. "CUSTNM" results in "&lt;CUSTNM&gt;"</p>
ONE2ONE	<p>One Input Record to one struct</p> <p>Controls whether each input record should result in one XML structure, regardless if there are any structures defined</p> <p>*YES</p> <p>*NO</p>

---

---

The command GENXML has the following parameters:

---

DECFMT	Decimal Format
--------	----------------

;"

."

---

DTDP	DTD Path
------	----------

---

## Command: PARSEXML

With the command PARSEXML the import of a XML file to adequate DB2 tables (and accordingly physical files) is carried out.

---

The command PARSEXML has the following parameters:

---

SCRIPT	XML Document Name Name of the XML file to be parsed incl. path in exact IFS-Names i.e. /home/xml/sampleinput.xml
VALXML	Validate XML against DTD To validate XML against an existing DTD before parsing starts. *YES *NO
MAPNAM	XML Tag Mapping Name Name of a previous saved mapping. If PARSEXML is executed in Batch mode, it is mandatory to enter an existing mapping. *CREATE *SELECT           A new mapping can be defined with dialogues. *DEFAULT           The conversion process is started without additional dialogues. Data is put directly into the file referred to by the parameter FILNAM (special value).
SPLTMRG	Consider Merge / Split Mapping When a mapping is entered with this parameter, it can control whether the Merge/Split-Processing should be executed or not. *YES *NO
ACTOPT	Ignore Error Determines if errors should be ignored. *YES *NO

---

The command PARSEXML has the following parameters:

---

SINGFIL	Copy Data into one file This parameter gives the opportunity to store a complete structure to one file. (No additional dialogues are needed for this) *YES  *NO
CVTATRB	Convert Attributes to Element Controls whether XML attributes are handled the same way as elements are handled. That means attributes can be transferred to physical file fields as well. *YES  *NO
DECFMT	Decimal Format  Controls the "decimal indicator". ", "                    Decimal indicator is a comma. ". "                    Decimal indicator is a period.
FILNAM	Enter new File Name / Library File to take the complete structure in the case of SINGFIL(*YES) and MAPNAM(*DEFAULT)
CVTSPEC	Convert special Characters Conversion for special (German) characters, which are not correct converted although CCSID is corrected. *YES                    Characters are converted.  *NO                      Characters are not converted.
BOOST	Boost processing Special Parser call, which is optimized for larger files with no complex structures. *YES

The command PARSEXML has the following parameters:

BOOST

\*NO

---

UCCSID

Use CCSID

If a special CCSID is to be used, it can be referred here.

\*DEFAULT            The current CCSID is used

---

RMVDTYPE

Remove DOCTYPE entry

If a file contains a DOCTYPE-instruction, processing can be run into problems. Therefore, i4XML allows a manipulation of the input file.

\*YES                DOCTYPE instruction will be removed from the original file, no way back!

\*NO                 DOCTYPE stays in file. Processing is probably not possible.

---

RPLUTF8

Replace UTF8 to EBCDIC

Special characters handling (UTF-8)

\*YES                Characters are converted

\*NO                 Characters are not converted

---

UTF8ISO

Replace UTF8 to ISO

UTF-8 coded Input files are converted to ISO before the Parser starts. Attention!!! File will be replaced.

\*YES

\*NO

---

ENCODING

Use Encoding

With this encoding an incorrect encoding (i.e. "UFT-16") can be replaced with an encoding that can be processed (i.e. "ISO-8859-1").

\*DEFAULT            The encoding is not changed.



---

The command PARSEXML has the following parameters:

---

ID2ELEM	Convert ID-Attrib. to Element Special Pre-Processing which converts <Id>-Tags into Attributes, so that they can process in a proper way. *YES  *NO
---------	--

---

EDIMAP

---

## Command: PARSEXMLB

With the command PARSEXML the import of a XML file to adequate DB2 tables (and accordingly physical files) is carried out.

---

The command PARSEXMLB has the following parameters:

---

SCRIPT	XML Document Name Name of the XML file to be parsed incl. path in exact IFS-Names, i.e. /home/xml/sampleinput.xml
VALXML	Validate XML against DTD To validate XML against an existing DTD before parsing starts. *YES *NO
CVTATRB	Convert Attributes to Element Controls whether XML attributes are handled the same way as elements are handled. That means attributes can be transferred to physical file fields as well *YES *NO
DECFMT	Decimal Format Controls the "decimal indicator" ", "                    Decimal indicator is a comma. "."                    Decimal indicator is a period.
JOBQ	Job Queue Name of the JOBQ which the job will be submitted to. *JOBD                The JOBQ will be determined according to the job description of the current job. *INTER              Interactive processing (special value).

---

The command PARSEXMLB has the following parameters:

---

UCCSID	Use CCSID Special use of CCSID or Codepage. *DEFAULT            The current CCSID is used.
ENCODING	Use Encoding With this encoding an incorrect encoding (i.e. "UTF-16") with an encoding that can be processed (i.e. "ISO-8859-1"). *DEFAULT            The encoding is not changed.
CVTSPEC	Convert special Characters Conversion for special (German) characters, which are not correct converted although CCSID is corrected. *YES                 Characters are converted. *NO                  Characters are not converted.
RMVDTYPE	Remove DOCTYPE entry If a file contains a DOCTYPE-instruction, processing can be run into problems. Therefore, i4XML allows a manipulation of the input file. *YES                 DOCTYPE instruction will be removed from the original file, no way back! *NO                  DOCTYPE stays in file. Processing is probably not possible.
RPLUTF8	Replace UTF8 to EBCDIC *YES                 Characters are converted *NO                  Characters are not converted
UTF8ISO	Replace UTF8 to ISO *YES *NO

---

---

The command PARSEXMLB has the following parameters:

---

ID2ELEM	Convert ID-Attrib. to Element
	*YES
	*NO

---

## Command: WRKPARSE

With the command WRKPARSE it is possible after the conclusion of the file analysis to continue to work with the command PARSEXMLB and define structures etc

---

The command WRKPARSE has the following parameters:

---

SCRIPT	XML Script Name Name of the XML file to be parsed incl. path in exact IFS-Names, i.e. /home/xml/sampleinput.xml
INPUTTYPE	Input Object Type
SPLTMRG	Consider Merge / Split Mapping When a mapping is entered with this parameter, it can control whether the Merge/Split-Processing should be executed or not. *YES *NO
ACTOPT	Ignore Error Determines if errors should be ignored. *YES *NO
SINGFIL	Copy Data into one file This parameter gives the opportunity to store a complete structure to one file. (No additional dialogues are needed for this) *YES *NO
MAPNAM	MAPQRY Name Name of a previous saved mapping. If PARSEXML is executed in Batch mode, it is mandatory to enter an existing mapping. *CREATE

---

---

The command WRKPARSE has the following parameters:

MAPNAM

- |          |   |
|----------|---|
| *SELECT  | A new mapping is generated with some dialogues.<br>(Special value).   |
| *DEFAULT | The conversion process is started without additional dialogues. Data is put directly into the file referred to by the parameter FILNAM (special value). |

---

FILNAM

- |  |
|--|
| File Name / Library  |
| File to take the complete structure in the case of SINGFIL(*YES) |

---

TAGNAM

- |                      |
|----------------------|
| XML Tag Mapping Name |
|----------------------|

## Command: WRKHRY

The command WRKHRY is used for the definition of complex structures. The result of this definition can then be used in the command CRTGENMAP.

---

The command WRKHRY has the following parameters:

---

HRIDEF	Hierarchy Definiton
	A new or existing Hierarchy name
*ANY	A dialogue appears with all existing mappings

**Command: EVALXML**

The command EVALXML is used for the textual verifying of a XML file.

---

The command EVALXML has the following parameters:

---

SCRIPT	XML Script Name Name of the XML file to be checked incl. path in exact IFS-Names, i.e. /home/xml/sampleinput.xml
--------	--

---

VALXML	Validate XML against DTD To validate XML against an existing DTD before parsing starts. *YES *NO
--------	---



## Command: MULTIPARSE

The command MULTIPARSE is able to work off a whole group of input files with one call. Internally the command PARSEXML is actually being used.

The command MULTIPARSE has the following parameters:

---

DIRNAME	Directory to scan Name of the path which contains the input files, i.e. /home/xml
EXT2SCAN	Extension to scan Extension to be scanned i.e. .xml
ACTION	Processing Action Controls what should happen with the input file after processing. *MOVE File is moved after processing, accordingly to DIR2MOVE and MOVACT. *CHGORG File name or extension is changed after processing, accordingly to the parameter EXT2CHG, STAMPTYPE and STAMPPLACE. *DELETE File is deleted after processing
DIR2MOVE	Directory to move files to Directory where the files should be moved to. Only valid when ACTION(*MOVE)
MAPNAM	MAPQRY Name Name of a previously saved mapping.
MOVACT	Action after Move Controls, what should happen with the file after the Move operation. *NONE File is not manipulated further after the move.

The command MULTIPARSE has the following parameters:

**MOVACT**

- \*CHGEXT            Extension of the file is manipulated according to EXT2CHG.
- \*STAMP            File gets a time stamp according to STAMPTYPE.
- \*STAMPEXT        Extension of the file is manipulated according to STAMPTYPE

**DECfmt**

Decimal Format  
 Controls the "decimal indicator".  
 " "  
 ,  
 ". "

**EXT2CHG**

Extension to change to  
 New extension. Only valid when ACTION(\*CHGORG) and accordingly MOVACT(\*CHGEXT)

**ID2ELEM**

Convert ID-Attrib. to Element  
 Special Pre-Processing which converts <Id>-Tags into Attributes, so that they can process in a proper way.  
 \*YES  
 \*NO

**STAMPTYPE**

Type of Stamp  
 Type of stamp.  
 \*DATTIM            Timestamp is both date and time.  
 \*DATE              Timestamp is date only.

**STAMPPLACE**

Where to stamp  
 Controls, where the stamp is inserted  
 \*BEGIN             At the beginning of the name.  
 \*END                At the end of the name

---

The command MULTIPARSE has the following parameters:

STAMPPLACE

*EXT	At the extension.
*NONE	No manipulation

---

SEQKEY            Sequence Key

---

## Command: CPYPRSMAP

The command CPYPRSMAP (Copy Parser Mapping) is provided to extract and copy Parser-Mappings from the original Environment to a transport library.

---

The command CPYPRSMAP has the following parameters:

---

FROMLIB	Original library Original Library where the Mappings are stored.
MAPNAM	MAPQRY Name Name of the Mapping to be exported. *SELECT                Shows a list of available Mappings.
LIBNAM	Target Library Target Library to receive the copied mappings.
MBROPT	Copy option for target Determines whether Data is to be added or replaced. *ADD                    Data will be added. *REPLACE              Existing Data will be replaced

---

## Command: RSTPRSMAP

The command RSTPRSMAP (Restore Parser Mapping) enables the import of Parser Mapping Definitions from a previously saved library. The Mappings must be provided with the command CPYPRSMAP

---

The command RSTPRSMAP has the following parameters:

---

MAPNAM	MAPQRY Name
	Mapping to be restored
	*ALL                    All existing Mappings will be restored
	*SELECT                Select one Mapping from a list

---

LIBNAM	Library to hold mapping
	Library which contains the Mapping files (to be provided with command CPYPRSMAP)

---

CPYOPT	Copy Option
	Determines whether Data is to be added or replaced.
	*ADD                    Data will be added.
	*REPLACE              Existing Data will be replaced.

---

---

## Command: WRKGENMAP

The command WRKGENMAP is provided to maintain the Generator Mapping Definitions.

---

The command WRKGENMAP has the following parameters:

---

GENMAP	Mapping Name
	To assign an existing Mapping.
*ANY	Shows a Dialogue from where a particular Mapping can be selected

---

## Command: MERGEXML

This command enables you to combine multiple parts of a XML-skeleton together to one valid XML stream file. Up to 3 input files plus one existing file can be combined together

---

The command MERGEXML has the following parameters:

---

XMLA	XML Input File A First Part.
XMLB	XML Input File B Second Part.
XMLC	XML Input File C Third Part.
XMLOUT	XML Output File Output File.
REPLACE	Replace File Determines whether an existing file has to be replaced or should be used as a "Base", new data is appended. *YES Existing file will be replaced. *NO Existing File won't be replaced; an error will be indicated in case there is an existing file. *APPEND New Data is added to the existing file.
MRGTYPE	Merge Type Select the Processor. *RPG i4XML own Module (recommend). *QSH Merge with QSH.

---