NTE_CONV - User Manual V0.8

Lotus Notes, Text Export Converter

[NTE_CONV]

User Manual

(NTE_CONV Version V2.2.2)

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1 NTE_CONV

1.1 Purpose of NTE_CONV

Lotus Notes Databases can be exported in different formats. My experience shows, that "**Structured Text**" is the most reliable, but there are not many programs who could use this kind of data format.

Because I often have to export Notes databases and make their contents useable for other scripts or programs, I've deceided to program NTE_CONV.

NTE_CONV is able to read the Notes databases and convert them to CSV or XML files.

Depending on what you want, there are lots of options which would effect the chosen output format.

1.2 Licence

NTE_CONV is FREEWARE.

This means that you are allowed to use this program for private or commercial use. You may distibute this program in the internet or on any electronical media (CD/DVD etc). But you aren't allowed to sell this program.

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You must not use the software if you don't agree to these terms !

1.3 Contact

For futher details don't hesitate to get in contact with me. Jens Gödeke

Please use the contact sheet on my homepage which you'll find under the following link

http://www.goedeke.net/kontakt eng.html

You may look for updates on my homepage:

http://www.goedeke.net/nte conv eng.html

1.4 FAQ

The only question, that reaches me periodicly is:

1.4.1 How could I convert exported mail content

The Lotus Notes exports RTF (Rich Text Format) fields without parameter name in structured-text-export files. Since Version 2.0.0 you can fetch this unbounded lines with the

option "Collect Unbounded Lines as". This option is available for CSV- (see 5.4.5) and XML-Exports (see 5.6.10).

For the special use case "Import Notes mail exports into Outlook" you may download the manual from my homepage : http://www.goedeke.net/nte_conv/notes2outlook-en.zip

2 The Main GUI

👪 Lotus Notes Text Export Converter 2.2.0 / Freev	ware (c)	1999	-2007 by Jens Gödeke	
Eile Options Help				
Load Notes Exportfile Load Notes Exportfile CSV Format Validate 0	Type		Coad Options	(Convert and Save
Edit Options				
Available Parameters		Outp	ut Sequence	
\$AltPrincipal	D	No.	Element	Alias
SMailer	103	1	From	Von: (Name)
\$MessageID	CE.	2	SendTo	An: (Name)
\$Revisions	-	-	ConvTo	CC: (Name)
\$StorageTo	鼎	-	COP910	CC. (Nume)
\$UpdatedBy		4	Blindcopylo	BCC: (Name)
AltFrom		5	INetFrom	Von: (Adresse)
deldate	2(1	6	INetSendTo	An: (Adresse)
delTmpEncrypt	т ц	7	INetCopyTo	CC: (Adresse)
delTmpImportance delTmpReturnPeceint	+	8	INetBlindCopyTo	BCC: (Adresse)
delTmpSign		9	Subject	Betreff
Encrypt	45	10	PostedDate	Datum
EnterCongTo				
Example: INetFrom: ାକ୍ରମ ନେକଥିଲି କ୍ରଥିବାହାନ୍ତ୍ର ଏକ		I⊽ Do I⊽ Au	on't remove Parameters through Comparise stosave Default NOS & NOF Files	on Save Sequence
Lines read : 94940				^
Parameters counted : 9540 Parameters found : 8596 Parameters substituted : 0 Parameters suppressed : 0 Records written : 954 Records suppressed : 0 Conversion time (sec) : 1				
Conversion of D:\@@@\nte_conv\Mail\notes2html.csv was suc	cessful			

2.1 The button field

File Option	ıs <u>H</u> elp			
e	Load Notes Exportile	Cestination File Type	👄 Load Options	💱 Convert and Save
	K Edit Options	✓ Validate Options	Save Options	Dose

Opens the Option formular

The buttons and their meanings are listed below:

 Load Notes Exportfile Loads an exported Notes file.

- Edit Options
- Validate Options Check whether the options are ok or not
- Load Options

Load options from a different option file • Save Options Save options to a different option file

- Convert and Save Converts and saves the Notes file in the chosen target format Close Program ends. •

2.2 The option formular

💕 Options		
XML Standard Options Record Key : Ignore Records with empty Key Values Ignore Elements with empty Values Allow multiple Element Occurrence Substitude missing with empty Elements	XML Validation Image: None (standalone) Image: XML Schema Definition (XSD) Image: Document Type Definition (DTD) Validation File Location	CSV Format Options Save Header Add Quotation Marks Suppress empty Records Use Semicolon as Separator Use Comma as Separator
ASCII 0 Handling C Delete ASCII 0 C Replace by CR-LF C Create new Elements Export Record Number as C Comment C Attribute Collect unbounded Lines as: Body	Embed : C Absolute Path C Filename only Use Namespace (Prefix : URI) : File Prescan Options C Scan only 1st Record (faster) C Scan all records (may find more parameter)	 ✓ Collect unbounded Lines as: Text Encoding: ISO-8859-1 ✓ ASCII 0 Handling C Delete ASCII 0 ④ Replace by CR-LF ⑥ Replace by ASCII : Space (32)
Mode : [1] Elements with Element Context Encoding : ISO-8859-1	Common Dptions ✓ Try to extract Names ✓ CopyTo Cut Strings after 1st Slash Cut Strings after 1st Slash All Elements ✓ Selected Elements ✓ NetSen INetSen INetSen Selected Elements ✓ NetSen INetBin Cut Strings after 1st Slash	ayTo n dTo yTo dCopyTo
	V UK	

The different options are described in chapter 5.3 to 5.6.

Available Parameters Output Sequence				
\$AltPrincipal	N	No.	Element	Alias
\$LangPrincipal	U			
\$Mailer	es.	1	From	von: (Name)
\$MessageID	P-2/2	2	SendTo	An: (Name)
\$Revisions				
\$RFSaveInfo	~	3	СоруТо	CC: (Name)
\$StorageTo	命	4	BlindConyTo	BCC: (Name)
\$UpdatedBy	_	<u> </u>		
AltFrom		5	INetFrom	Von: (Adresse)
DefaultMailSaveOptions		6	INetSendTo	ùn: (ùdresse)
deldate	?{]	Ľ	INECSENTIO	AII. (AULESSE)
delTmpEncrypt	-	7	INetCopyTo	CC: (Adresse)
delTmpImportance	-	-	TNet PlindCenuTe	PCC: (Advance)
delTmpReturnReceipt		Ľ	тмесытнасоруто	BCC: (Auresse)
delTmpSign		9	Subject	Betreff
Encrypt				
EnterBlindCopyTo	4>	10	Posteduate	Datum
FnterConvTo				
Example:		🔽 Do	on't remove Parameters through Comparison	n 👝
INetFrom:		🔽 Au	itosave Default NOS & NOF Files	Save Sequence

2.3 The parameter fields

In the left field you see the available parameters of a Notes file. If you have selected parameters and transfer them to the right field, the parameters are removed from the left field.

The right field shows the parameters and the output sequence you want to write to the output file.

2.4 The example field

Since version 2.0.0 NTE_CONV shows an example for each parameter you select on any of the parameter fields. The example is stored while NTE_CONV scans your source file's first record.

Example: Firstname: George

2.5 The status field

The Status field shows what NTE_CONV is doing while you read/convert or save a file.

Current Sourcefile : D:\@@\CPP\nte_conv\example\example.txt

2.6 The info field

Since version 2.0.0 NTE_CONV's converting module is extracted from the main programme to a command line executable which is called NTE_CONV_CMD.

The output of NTE_CONV_CMD (and some other information) is shown in the info field.

Lines read	:	720230	A
Parameters counted		670176	
Parameters found	:	324555	
Parameters substituted		0	
Parameters suppressed	:	345621	
Records written	:	6444	
Records suppressed	:	0	
Conversion time (sec)	:	10	

3 Conversion Preparation

3.1 Exporting a Notes DB

First you have to export the Notes DB you want to convert later.

This can be done by clicking the "Export" Menu item from the main menu "File" After that you have to give a filename for the textfile.

Export			? ×
Spejchern 🔂 TEMP) 🖻 🕈 💌	* 💷 *
hsperfdata_jgoedeke	폐 ~DF2B0C.tmp 폐 ~DF3D2C.tmp 폐 ~DF5AD9.tmp) ∼DFC7Cl) ∼DFC7Et) ∼DFDF30	E.tmp 🕎 5.tmp 🜌 C.tmp 🜌
VBE ADF2590.tmp ADF269D.tmp	∞DF6779.tmp ■ ~DFBFE4.tmp ■ ~DFC7B9.tmp	⊠ ~DFECD এ ~DFEF14 এ ~DFF6C	8.tmp 2 4.tmp 2
Datei <u>n</u> ame: filename.b	kt –		E <u>x</u> port
Dateityp: Structured	d Text	•	Abbrechen
			<u>H</u> ilfe
Obaaaa a filanamaa	:4h - 4,4" - 4,4		//.

Choose a filename with a "txt"-extension (see example above).

The export format must be "Structured Text"

After that you may select whether you export all or only the selected items of you Notes DB.



The dataset separator **must** be "Form-feed" or Character code "12"

(this is set by default, so don't change it...)

The position of the word wrap should be about 10000 (if you use textfields).

The export process starts by clicking the "OK" Button.

3.2 The load process

Now, you are able to load and scan the file you've exported a few seconds before. Just press the "Load Notes Exportfile" button on the main GUI of NTE_CONV.



A file dialog appears:

Open					<u>?</u> ×
Look jn: 🔂	example	•		<u>r</u>	
example.tx					
File <u>n</u> ame:	example.txt			<u>O</u> per	1
Files of <u>t</u> ype:	Lotus Notes Export Text files (*	*.txt)	•	Cance	el

Select the exported file and press "Open"

After that a scan process on the first dataset of the Notes file starts.

All parameters of the first dataset are collected and shown in the left part of the parameter field.

Available Parameters
Address
City Country
Firstname
Name

3.3 Selection of parameters

You may select the parameters you want to convert by clicking on them. Windows-like selecting with <Shift> & <CTRL> is also possible.



By clicking on the red arrow (see above) you move the parameters to the output sequence field on the right side.

Available Parameters		Outp	ut Sequence	
\$AltPrincipal	ĸ	No.	Element	Alias
\$LangPrincipal	-		Francis	Mana (Mana)
\$Mailer	圏	1	riom	von: (Name)
\$MessageID	N-2.2	2	SendTo	An: (Name)
\$Revisions				· ·
\$RFSaveInfo	~	3	СоруТо	CC: (Name)
\$StorageTo	命	4	BlindConvTo	BCC: (Name)
\$UpdatedBy		<u> </u>	biindoopyio	Deer (Name)
AltFrom		5	INetFrom	Von: (Adresse)
DefaultMailSaveOptions		6	INetSendTo	ùn: (ùdresse)
deldate	?{]	Ľ	incoscilaro	AII: (AULCODE)
delTmpEncrypt		7	INetCopyTo	CC: (Adresse)
delTmpImportance	-		TM-+ Dl (a dC- a a T-	DCC: (Adverse)
delTmpReturnReceipt		<u> </u>	INECHIINACOPYIO	BUU: (Adresse)
delTmpSign		9	Subject	Betreff
Encrypt				-
EnterBlindCopyTo	4>	10	PostedDate	Datum
FnterConvTo				
Example:		🔽 Do	on't remove Parameters through Comparison	
INetFrom:		🔽 Au	tosave Default NOS & NOF Files	🚽 Save Sequence

3.4 Changing the Output Sequence

If you want to change a parameters position within the output sequence you may select this

parameter and press the position button (



A Dialog appears and you may give a new position within a valid range of the sequence.

×
_
- 11

(In this example ist from 1 to 2)

After pressing the "OK" button the position is changed.

Output Sequence		
No.	Element	
1	Name	
2	City	

3.5 Delete parameters from Output Sequence

If you want to move a parameter back to the "available parameters" field on the left side, you may do this by selecting the parameter and press the "arrow with the left direction"

button (

The selection may be done windows-like with <SHIFT> & <STRG>.

3.6 Adding new parameters

While the first scanning process NTE_CONV only collects the parameters witch are within the first dataset. If parameters are missing in the first set, you may add these by clicking on

the "new" button: []] (If this button is not activ click in the right field one time)

A input dialog appears:

New Parameter	×
Enter a Parameter Name:	
OK	Abbrechen

After giving a parameter name and pressing the "OK" button, NTE_CONV checks whether the parameter exists in one of the both fields or not.

The option "Don't remove Parameters through Comparison" is activated now

Don't remove Parameters through Comparison

This is a protection option, cause normaly all non existing parameters are removed when you load the exported file again. This option disables the removing function.

3.7 Renaming a manual added parameter

Click on a manual added parameter:



The edit button is activated : Press this button to change the name of the parameter.

3.8 Delete a manual added parameter

Click on a manual added parameter.



The delete button is activated : Press this button to delete the parameter.

3.9 Alias Usage

A new feature is included in NTE_CONV V2.2.0.

Output Sequence ...

No.	Element	Alias
1	Address	
2	City	
3	Country	
4	Firstname	

To enter an alias you have to select a parameter (in this screenshot it's "Address")

After that you have to press the ¹⁵ button in order to get a dialog called "Change Parameter":

Change Parameter 🛛 🛛 🛛		
Enter a Parameter Name:		
My Address		
OK Cancel		

The given Alias is shown in the field called "Alias"

Output Sequence					
	No.	Element	Alias		
	1	Address	My Address		
	2	City			

While you do the conversion into CSV or XML format the alias is written as field intentifier instead of the original name.

In this example the former field "Address" is exported as "My Address".

This feature can be used to generate more acurate export files which can be imported into programs that have strict naming conventions.

4 Convert and save a file

First you have to choose whether you want to convert the Notes file to a CSV or XML file.



What ever you choose here, its options are enabled in the options formular.

There are several options which you may change by pressing the "Edit Options" Button from the Button field. These options are described in Chapter 5.

After your settings have been selected you may start the conversion.

Normally NTE_CONV generates an option file (NOF) and an Output sequence file (NOS) for each source file.

If you want to create only temporary NOF and NOS files you may uncheck the option "Autosave Default NOS & NOF Files"

₽	10	FaxNSt	-
7	☑ Do ☑ Au	n't remove Parameters through Comparison tosave Default NOS & NOF Files	R Save Sequence

Now you may press the "Convert and Save" button.



A Save-Dialog appears where you have to choose an output file:

Save As						? ×
Save in: 🔁	example	•	£	<u></u>	C	
 example.xr example1.; example2.; example3.; example4.; 	nl xml xml xml					
File <u>n</u> ame:	example.xml		_			<u>S</u> ave
Save as <u>t</u> ype:	XML Files (*.xml)			•		Cancel

The extention of the output file is depending on which file format you have selected before.

Press the "Save" button to start the conversion process.

The Information field shows the information NTE_CONV_CMD generates. Example output:

```
*******
#
        NTE CONV CMD V1.2.0 / Freeware (c) Jens Goedeke 2005-2007
                                                           #
*****
Reading NOF file <D:\@@\cpp\nte_conv\example\example.nof> ...
-> Ready.
Reading NOS file <D:\@@\cpp\nte_conv\example\example.nos> ...
-> 4 Parameters & 1 Aliases found.
Output format
                  : CSV
Separator
                  : Semicolon
Print header
                  : Yes
Quotation marks
                  : Yes
Empty records
                  : Suppress
                  : ISO-8859-1
Source Encoding
Target Encoding
                  : ISO-8859-1
ASCII 0 handling
                  : Space (ASCII 32)
Line collecting
                  : Yes (Name="Body")
Extract names
                  : No
Cut names
                  : No
Converting <D:\@@\cpp\nte conv\example\example.txt>
to <D:\@@\cpp\nte conv\example\example.csv>
Working :
Done...
# Statistics #
           : 27
Lines read
Parameters counted : 12
Parameters found
                  :
                        12
Parameters substituted :
                         0
Parameters suppressed :
                         0
Records written
                         3
                  :
Records suppressed
                  :
                         0
Conversion time (sec) : 0
```

While NTE_CONV_CMD runs the cursor is shown as a hourglass. After you see the statistic information the conversion is done.

If you double click on the Information field a transfer dialog appears.

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If you press "Yes" the information is copied to the windows clipboard.

5 The Options

To give you the possibility for a most flexible conversion a lot of options are available.

🍑 Options		
XML Standard Options Record Key : Ignore Records with empty Key Values Ignore Elements with empty Values Allow multiple Element Occurrence Substitude missing with empty Elements ASCII 0 Handling Delete ASCII 0 Replace by CR-LF Create new Elements Export Record Number as Comment Attribute Collect unbounded Lines as:	XML Validation None (standalone) XML Schema Definition (XSD) Document Type Definition (DTD) Validation File Location Image: Comparison of the comparison of th	CSV Format Options Save Header Add Quotation Marks Suppress empty Records Use Semicolon as Separator Use Comma as Separator Collect unbounded Lines as: Text Encoding: ISO-8859-1 ASCII 0 Handling Collete ASCII 0 Replace by CR-LF Replace by ASCII : Space (32)
Mode : (1) Elements with Element Context	Common Options Try to extract Names Cut Strings after 1st Slash Cut Strings after 1st Slash All Elements All Elements All except selected Elements MetBi Subject V OK	o o o o o o o o o o o o o o o o o o o
	-	

5.1 Destination File Type



Depending on which File Type you have selected a group of options is enabled to change.

5.2 File Prescan

Since the first release in 1999 I had to decide, whether to scan only the 1st record of an export file or the complete export file. Assuming that the most important parameters were included in the first record and knowing that the PCs where not the fastest in scanning huge export files I had chosen the first option. Now, based on a change request of a user and with the background of much faster PCs I decide to switch to the second option.

5.2.1 Scan only 1st Record

This is the old method which scans only the first record to fetch the available parameters

5.2.2 Scan all records

This is the new default method which scans all records for available parameters. The message box is telling you which parameters are found in which record. For example:

. . .

```
New Record [2] detected
New Record [3] detected
-> Adding new Parameter : In_Reply_To
-> Adding new Parameter : $AltNameLanguageTags
-> Adding new Parameter : $StorageCc
-> Adding new Parameter : $StorageBcc
-> Adding new Parameter : AltCopyTo
-> Adding new Parameter : InheritedReplyTo
-> Adding new Parameter : InheritedFrom
-> Adding new Parameter : InheritedFrom
-> Adding new Parameter : InheritedAltFrom
-> Adding new Parameter : InheritedFrom
```

While there is no new parameter found in record 2, there are 9 new parameters in record 3.

5.3 Common Options

Common Options	
✓ Try to extract Names ☐ Cut Strings after 1st Slash	 Address ✓ Country Name
 All Elements Selected Elements All except selected Elements 	

Both filter work similar but there are small differences.

Sometimes Notes stores Names with their department, company and so on...

5.3.1 Option : "Try to extract Names"

Is a parameter separated in object segments, this filter extracts the first item of any object

Example:

from "CN=George Clooney/OU=Ambulance/O=Chicago Memorial"
=> "George Clooney" is extracted.

==> The first item within an equal sign and a slash is extracted.

Is the parameter a list field, all first items of each objects are extracted: from : "CN=Jean-Luc Picard/OU=USS Enterprise, CN=Worf/OU=USS Enterprise" ==> "Jean-Luc Picard, Worf" is extracted.

5.3.2 Option : "Cut Strings after 1st Slash"

The difference to the "Try to extract Names" option is that the first item does not have an equal sign.

From : "George Clooney/OU=Ambulance/O=Chicago Memorial"

==> "George Clooney" is extracted

Is the parameter a list field, all first items of each objects are extracted:
From : "Jean-Luc Picard/OU=USS Enterprise, Worf/OU=USS Enterprise"
==> "Jean-Luc Picard, Worf" is extracted

5.3.3 Element Selection (New with 1.8.0)

With the former versions of NTE_CONV the functions "Try to extract Names" and "Cut Strings after 1st Slash" were executed on all elements. Now you are able to select the elements which should be modified by the two common functions.

Here are the different selection modes:

- All Elements The chosen functions work with all elements
- Selected Elements The chosen functions work only with the selected elements in the right list.
- All except selected Elements

The chosen functions work with all elements except the selected elements in the right list.

5.4 CSV Options

The following options are only available if CSV format is selected in the main GUI.



5.4.1 Option : "Save Header"

(Default=Activated)

The first line of the output CSV file is represented by the parameter names.

Example :

Option is activated:

```
Firstname;Name;Address;City;Country
George;Clooney;AnyStreet 1;;USA
```

Heather;Graham;;;

Option is deactivated:

```
George;Clooney;AnyStreet 1;;USA
Heather;Graham;;;
```

5.4.2 Option : "Add Quotation Marks"

(Default=Deactivated)

All parameter values including the header (if "Save Header" option is activated) are embraced by Quotation Marks.

Since version 2.0.0 single quotation marks a extended to double quotation marks (this is defined in the csv spec.)

Example 1:
Hello "Hugh"
is extended to:
"Hello ""Hugh""

Example 2: Option deactivated:

Firstname;Name;Address;City;Country
George;Clooney;AnyStreet 1;;USA
Heather;Graham;;;

Option activated:

"Firstname"; "Name"; "Address"; "City"; "Country" "George"; "Clooney"; "AnyStreet 1"; ""; "USA" "Heather"; "Graham"; ""; ""; ""

5.4.3 Option : "Suppress empty Records"

(Default=Deactivated)

If this option is activated, records were suppressed if all parameters have no values.

5.4.4 Option : "Use ??? as Separator"

(Default="Use **Semicolon** as Separator") Diese Option selects whether the separator is a comma or a semicolon

Example :

Option "Use Semicolon as Separator"

```
Firstname;Name;Address;City;Country
George;Clooney;AnyStreet 1;;USA
Heather;Graham;;;
```

Option "Use Comma as Separator"

```
Firstname,Name,Address,City,Country
George,Clooney,AnyStreet 1,,USA
Heather,Graham,,,
```

5.4.5 Option : "Collect unbounded Lines as:"

There is a new feature included in 2.2.0.

It's the same feature which is included since 2.0.0 for XML but know it's also available for CSV export.

This option allows you to collect all lines of a dataset which are not signed by an identifier. All violett lines are collected in the following example:

```
Name: Picard

Firstname: Jean-Luc

Address: Room next to the bridge of the USS Enterprise

Picard was born on Earth in 2305 to

Maurice Picard and Yvette Gessard Picard.

Maurice was a tradition-bound French vintner who opposed

Jean-Luc's ambitions of voyaging among the stars.

City:

Country:

Properties: He's the Captain of the USS Enterprise !!!
```

The result is (if you have chosen "**Body**" as the element name):

```
"My Address";"City";"Country";"Firstname";"Body"
"AnyStreet 1";"";"USA";"George";""
"";"";"Heather";""
"Room next to the bridge of the USS Enterprise";"";";"Jean-Luc";"Picard
was born on Earth in 2305 to
Maurice Picard...
```

If you don't type a name for the element the default element name "Attachment" is used.

Hint:

The output of the collected lines are depending on what you have selected in the "ASCII 0 Handling" option. If you have selected "Delete ASCII 0" all line feeds are suppressed in the output.

5.4.6 Option : "Encoding"

Since V2.0.0 the file encoding can be selected. If the encoding of the source file differs from the selected encoding a automatic conversion is done.

5.4.7 Option : "ASCII 0 Handling"

(Default="Delete ASCII 0")

In Notes "Structured Text" format files, the lines of textfields are not separated by CR/LF but by ASCII 0 characters.

With this option you decide which character replaces the ASCII 0 character in the output file or if the ASCII 0 character is deleted.

Since V2.0.0 ASCII 0 characters can be replaced by CR/LF, too.

If ASCII 10 (LF), 13 (CR) or CR/LF is selected the option "Add Quotation Marks" is automatically checked.

Hint : Excel prefers ASCII 10 (LF) as ASCII 0 replacement.

5.5 Automatic CSV Error Correction

To avoid errors in CSV files there's a kind of protection mechanism

If you have chosen "**Use Comma as Separator**" and a parameter consists of commas (example : "Riker, William T.") the commas are replaced by semicolons if "Add Quotation Marks" is deactivated.

Example:

Option "Use Comma as Separator" + "Add Quotation Marks" + "Riker, William T." ==> :..., "Riker, William T.",...

Option "Use Comma as Separator" ohne "Add Quotation Marks" + "Riker, William T." ==> :..., Riker; William T.,...

The Option "Use Semicolon as Separator" is handled the same way (but vice versa)

5.6 XML Options

XML Standard Options	XML Validation
Record Key :	None (standalone)
☐ Ignore Records with empty Key Values	XML Schema Definition (XSD)
Ignore Elements with empty Values	O Document Type Definition (DTD)
Allow multiple Element Occurrence	Validation File Location
Substitude missing with empty Elements	e l
ASCII 0 Handling	Embed :
Delete ASCII 0	C Filename only
C Replace by CR-LF	
C Create new Elements	E Hao Namagana (Braffur HBI)
Export Record Number as	
Comment	
C Attribute	
Collect unbounded Lines as:	
Mode : (1) Elements with Element Context	
Encoding : ISO-8859-1	
XML Stylesheet Handling	
Use Stylesheet	
6	

Because of very complex XML options all options below are described with examples. The example file is given in the NTE_CONV package and named ".lexample.txt"

The contents of the example file:

```
Name: Clooney
Firstname: George
Address: AnyStreet 1
City:
Country: USA
Tel: +01/23451/89876
Tel: +01/12345/67890
<- Notes dataset separator
Name: Graham
Firstname: Heather
Address:
City:
Country:
<- Notes dataset separator
Name: Picard
Firstname: Jean-Luc
Address: Room next to the bridge of the USS Enterprise
```

City: Country: Properties: He's the Captain of the **<ASCII 0>**USS Enterprise !!! **<- Notes dataset separator**

If only parts of the files are shown, the previous and following lines are replaces by three dots:

... Name: Graham ...

5.6.1 Field "Record Key"

(Default=empty)

With this option you choose a parameter which is used as a element ID.

Since V2.0.0 the key is printed as "key_name" and the key value is printed as "key_value" *Example:*

Select "Country" (from the example file)

Record Key : 💽 👘

The output:

If you want to delete a selected record key click on the trash bin button If no "Record Key" is selected no attribute appears in the record output

5.6.2 Option : "Ignore Records with empty Key Values"

(Default=deactivated)

If this option is activated, you have chosen a record key and the parameter does not exist or it does not have a value, the output of the whole record (dataset) is suppressed.

5.6.3 Option : "Ignore Elements with empty Values"

(Default=deactivated)

If this option is activated and a parameter has no value, the element output is suppressed. The options "Ignore Elements with empty Values" and " Substitude missing with empty Elements " are excluding each other. If one of these options are checked, the other option is disabled.

Example:

Option deactivated:

```
...
<record>
    <Firstname>Heather</Firstname>
    <Name>Graham</Name>
    <Address></Address>
```

```
<City></City>
<Country></Country>
</record>
```

Option activated:

```
...
<record>
    <Firstname>Heather</Firstname>
        <Name>Graham</Name>
</record>
...
```

5.6.4 Option : "Allow multiple Element Occurrence"

(Default= deactivated)

If parameters appear in a Notes file more than one times, this option decides if only the first appearance is send to output or all appearances are send to output. (This is done in dependency to the other options).

Example:

Option deactivated

```
...
<record>
    <Firstname>George</Firstname>
        <Name>Clooney</Name>
        <Address>AnyStreet 1</Address>
        <City></City>
        <Country>USA</Country>
        <Tel>+01/23451/89876</Tel>
        </record>
...
```

Option activated

```
...
<record>
    <Firstname>George</Firstname>
        <Name>Clooney</Name>
        <Address>AnyStreet 1</Address>
        <City></City>
        <Country>USA</Country>
        <Tel>+01/23451/89876</Tel>
        <Tel>+01/12345/67890</Tel>
</record>
```

. . .

5.6.5 Option : "Substitude missing with empty Elements"

(Default= deactivated)

If parameters are missing in datasets, this option decides whether empty elements are placed in the output record or not

The options **"Ignore Elements with empty Values**" and **" Substitude missing with empty Elements** " are excluding each other. If one of these options are checked, the other option is disabled.

<u>Example</u>: (parameter "Tel" is not available in the currect dataset) Option activated:

```
...
<record>
    <Firstname>Heather</Firstname>
        <Name>Graham</Name>
        <Address></Address>
        <City></City>
        <Country></Country>
        <Tel/> <!-- Substituted Element -->
</record>
...
```

Option deactivated:

```
...
<record>
    <Firstname>Heather</Firstname>
        <Name>Graham</Name>
        <Address></Address>
        <City></City>
        <Country></Country>
</record>
...
```

5.6.6 Option : "ASCII 0 Handling"

(Default="Delete ASCII 0") In Notes "Structured Text" format files, the lines of textfields are not separated by CR/LF but with ASCII 0 characters.

With this option you decide which character replaces the ASCII 0 character or if new elements are created

5.6.6.1 Option : "Delete ASCII 0"

All ASCII 0 characters are deleted *Example:*

```
<record> <!-- Record number 3 -->

<Name>Picard</Name>

...

<Properties>He&apos;s the Captain of the USS Enterprise !!!</Properties>

</record>
```

```
5.6.6.2 Option : "Replace by CR-LF"
All ASCII 0 characters are replaced by CR/LF.
Example:
```

```
<record> <!-- Record number 3 -->

<Name>Picard</Name>

...

<Properties>He&apos;s the Captain of the

USS Enterprise !!!</Properties>

</record>
```

5.6.6.3 Option : "Create new Elements" Each ASCII 0 character creates a new Element

Each ASCII o character creates a new Elemen

```
<record> <!-- Record number 3 -->

<Name>Picard</Name>

...

<Properties>He&apos;s the Captain of the </Properties>

<Properties>USS Enterprise !!!</Properties>

</record>
```

5.6.7 Option : "Export Record Number as ..."

With this options you select whether the current dataset number is written in the output file or not. Further you may select if the dataset number should be written, if it is done as a XML attribute or a XML comment.

5.6.8 Option "Comment"

Default=**activated** Option activated:

```
...
<record> <!-- record number 2 -->
        <Firstname>Heather</Firstname>
        ...
</record>
...
```

5.6.9 Option "Attribute" Option activated:

```
...
<record number="2" >
        <Firstname>Heather</Firstname>
        ...
</record>
...
```

5.6.10 Option : "Collect unbounded Lines as:"

With the final version 2.0.0 comes an option that allows you to collect all lines of a dataset that are not signed by an identifier.

All violett lines are collected in the following example:

Name: Picard Firstname: Jean-Luc Address: Room next to the bridge of the USS Enterprise Picard was born on Earth in 2305 to Maurice Picard and Yvette Gessard Picard. Maurice was a tradition-bound French vintner who opposed Jean-Luc's ambitions of voyaging among the stars. City: Country: Properties: He's the Captain of the USS Enterprise !!!

The result is (if you name the element "test"):

<test>Picard was born on Earth in 2305 to Maurice Picard and Yvette Gessard Picard. Maurice was a tradition-bound French vintner who opposed Jean-Luc's ambitions of voyaging among the stars.</test> <!-collected -->

If you don't givetype a name for the element the default element name "Attachment" is used.

Hint:

The output of the collected lines are depending on what you have selected in the "ASCII 0 Handling" option. If you have selected "Delete ASCII 0" all line feeds are suppressed in the output.

5.6.11 Option : "Mode"

Since V2.0.0 NTE_CONV supports 4 different XML modes for the output file.

(1) Elements with Element Context (classic mode of the previous versions)

- (2) Elements with Attributes
- (3) Attributes with Element Context
- (4) Attributes with Attribute Context

See an example for each mode:

5.6.11.1 Elements with Element Context

```
...
<record>
<Firstname>George</Firstname>
<Name>Clooney</Name>
<Address>AnyStreet 1</Address>
<City/>
<Country>USA</Country>
<Properties/>
<Tel>+01/12345/67890</Tel>
</record>
```

. . .

5.6.11.2 Elements with Attributes

5.6.11.3 Attributes with Element Context

```
...
<record>
<item name="Firstname">George</item>
<item name="Name">Clooney</item>
<item name="Address">AnyStreet 1</item>
<item name="City"/>
<item name="Country">USA</item>
<item name="Properties"/>
<item name="Tel">+01/12345/67890</item>
</record>
```

5.6.11.4 Attributes with Attribute Context

5.6.12 Option : "Encoding"

Since V2.0.0 the file encoding can be selected.

If the encoding of the source file differs from the selected encoding a automatic conversion is done.

5.6.13 Option "XML Stylesheet Handling"

Since V2.0.0 NTE_CONV supports XSL embedding.

XML Stylesheet Handling Vise Stylesheet	
C:\@@\cpp\nte_conv\example\example.	

5.6.14 The XML Validation Options

After the W3C Organisation has presented the DTD successor **XSD** (XML Schema Definition), it was to foresee that XSD would suppress the DTD's in a short time.

I decided to have a close view on XSDL (XML Schema Design Language) and implement some of its propabilities.

Since V2.0.0 DTD support is also supported.

Who don't cares about XML validation should go ahead at chapter 5.7.

5.6.14.1 Option : "None (standalone)" (Default)

These option takes care of that no information about XSD files is written into the output file.

5.6.14.2 Option : " XML Schema Definition (XSD)"

A XML document that refers to a XSD file is called "Instance". With this option you are able to place XSD references in the output file.

5.6.14.3 Option : "Document Type Definition (DTD)"

To include a reference to a DTD file you choose this option.

5.6.14.4 Option : "XML Validation Location"

With this option you are able to include DTD/XSD information into the output file.

 Validation 	n File Location	
		\simeq
Embed :	O Absolute Path	
	C Filename only	

You may use the button right to the edit field to search for a special DTD or XSD file. NTE_CONV would scan the DTD/XSD file for the applied schema namespace and include this information into the output file.

5.6.14.5 Option : "Embed"

With this option you decide whether the full path (Absolute Path) or only its filename (Filename only) is included into the output file.

The path separators ("backslash") are replaced by slashes.

5.6.15 Option : "Namespace"

🔽 Use Names	pace (Prefix : URI)
	http://www.3gpp.org/ftp/s

You may enter the a namespace and its URI.

Advice :

The namespace is filled automatically if you have chosen the XSD file by the filebrowser (see 5.6.14.4)



5.7 Automatic XML Errorcorrection

XML Elements must start with a character or an underscore. If a Notes parameter does not match with this guideline, the characters are replaced by underscores. Example : $FILE^* \rightarrow FILE^*$.

To take care of the most non english special characters, NTE_CONV uses the **ISO-8859-1** characterset. If your XML parser or your stylesheet processor can not read ISO-8859-1 charactersets, you may change the "encoding" attribute in the headline of the XML file to "UTF-8" or "UTF-7".

6 Misc Functions

6.1 Saving the the output sequence in [sourcename].nos

After each conversion NTE_CONV stores the selected output sequence for each sourcefile in a file named **[sourcefile].nos**.

After you read the sourcefile again, NTE_CONV knows the output parameters and its sequence by reading this *.nos file.

6.2 Saving the options in [sourcename].nof

The selected options are also stored for each sourcefile before you start the conversion or when you exit NTE_CONV.

This file is named [sourcefile].nof (Nte Option File).

6.3 Loading the options from [sourcename].nof

If you want to load the options from a different option file you may press the "Load Options" button.

6.4 Validierung der NTE_CONV Einstellungen

If NTE_CONV_CMD should validate the selected options before running the conversion you may press the "Validate Options" button.

The validation runs several checks only on the NOF file.

This means, that some faults could not be detected (e.g. if a specified record key does not exist in the source file). This kind of fault is only detected in the conversion process.

6.5 Saving the output sequence to any file

If you want to use a output sequence file for more than one source file you may save the current output sequence to a file with a specific name. This is only useful when you're using the command line converter NTE_CONV_CMD

6.6 Commandline parameters

Since V1.7.0 NTE_CONV supports commandline paramters: The syntax:

nte_conv [[-i:pathname] | [filename]]

You may use this parameters effectively by creating a link to NTE_CONV.

• Therefore you have to click with your right mousebutton on "nte_conv.exe" and choose "create link" (or how this is named in your english version of windows).



• Rename the link from "nte_conv.exe" to "nte_conv" or whatever makes more sense than its original link name.

6.6.1 Initial Path

With the option "**-i:pathname**" you may select a path in which NTE_CONV starts its file dialog after you start NTE_CONV

- Create a link to NTE_CONV (see description above)
- Edit the properties of the link and append a "-i:" followed by your prefered path in the target field.

Example d:\office

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nte_conv.exe Properties											
General Shortcut											
nte_conv.exe											
Target type: Application											
Target location: Disc											
Target: @@\CPP\nte_conv\Disc\nte_conv.exe i:d:\office											
Start in: \\HOST\HOST-D\@@\CPP\nte_conv\Disc											
Shortcut <u>k</u> ey: None											
Bun: Normal window											
<u>Find Target</u> <u>Change Icon</u>											
OK Cancel <u>A</u> pply											

The next time you start NTE_CONV though this link, the file dialog starts in "d:\office"

Open						?	×
Look jn: 🧲	Office	-	£	<u></u>	<u>r</u>		
File <u>n</u> ame:		_				<u>O</u> pen	
Files of <u>type</u> :	Lotus Notes Export Text Files (*.txt))		•		Cancel	
File <u>n</u> ame: Files of <u>t</u> ype:	 Lotus Notes Export Text Files (*.txt))		•		<u>O</u> pen Cancel	

6.6.2 Startup file

- Create a link to NTE_CONV (see description above)
- Copy this link to your windows "Send_to" path:

The WinNT path is "C:\windows\profile\[Your Profile]\Send_to" The Win98 path is "C:\Windows\Sent_to" The Win2k and WinXP path is : "C:\Documents and Settings\[Your Profile]\Send_to" The Vista und Windows 7 path is : "C:\Users\[Your Profile]\AppData\Roaming\Microsoft\Windows\SendTo" • If you have exported a Notes text file, you only have to click with your right mouse button on it and choose under "Send_To" your created link.



7 Details

7.1 Structure of the Lotus Notes "Structured Text" Export Format

Notes "Structured Text" Format is a plain ASCII format where a parameter is followed by a colon, two spaces and its value.

The datasets are divided by ASCII 12 dez / \$09 hex (this is the ASCII Escape-Sequence for a new page). ASCII 0 characters are used as line separators.

See a dump of the example file which is used in the examples above:

```
Name: Clooney
Firstname: George
Address: AnyStreet 1
City:
Country: USA
Tel: +01/23451/89876
Tel: +01/12345/67890
Properties:
Ŷ
Name: Graham
Firstname: Heather
Address:
City:
Country:
Properties:
Ŷ
Name: Picard
Firstname: Jean-Luc
Address: Room next to the bridge of the USS Enterprise
City:
Country:
Properties: He's the Captain of the USS Enterprise !!!
```

This is the hexdump:

00000	4E 61	6D	65		ЗA	20	20	43	60	6F	6F	6E	65	79	0 D	0A	Name: Clooney)
00010	46 69	72	73		74	6E	61	6D	65	3A	20	20	47	65	6F	72	Firstname: Geor
00020	67 65	0D	0A		41	64	64	72	65	73	73	3A	20	20	41	6E	ge≯ @ Address: An
00030	79 53	74	72		65	65	74	20	31	0 D	0A	43	69	74	79	ЗA	yStreet 1≯⊠City:
00040	20 20	0D	0A		43	6F	75	6E	74	72	79	3A	20	20	55	53	♪@Country: US
00050	41 OD	0A	54		65	6C	ЗA	20	20	2B	30	31	2 E	32	33	34	A⊅⊠Tel: +01/234
00060	35 31	2F	38		39	38	37	36	01	0 A	54	65	60	3A	20	20	51/89876≯@Tel:
00070	2B 30	31	2F		31	32	33	34	35	2F	36	37	38	39	30	0 D	+01/12345/67890♪
00080	0A 50	72	6F		70	65	72	74	69	65	73	3A	20	20	0 D	0A	@Properties: ♪©
00090	OC OD	0A	4E		61	6D	65	3A	20	20	47	72	61	68	61	6D	♀♪ © Name: Graham
000A0	OD OA	46	69		72	73	74	6E	61	6D	65	3A	20	20	48	65	♪ © Firstname: He
000в0	61 74	68	65	L	72	0 D	0A	41	64	64	72	65	73	73	ЗA	20	ather) ⊡ Address:

```
000C0 20 0D 0A 43 69 74 79 3A 20 20 0D 0A 43 6F 75 6E
                                                            JOCity: JOCoun
000D0 74 72 79 3A | 20 20 0D 0A | 50 72 6F 70 | 65 72 74 69 try: )@Properti
000E0 65 73 3A 20 | 20 0D 0A 0C | 0D 0A 4E 61 | 6D 65 3A 20 es: )@♀)@Name:
000F0 20 50 69 63 61 72 64 0D 0A 46 69 72 73 74 6E 61
                                                            Picard≯⊠Firstna
00100 6D 65 3A 20 | 20 4A 65 61 | 6E 2D 4C 75 | 63 0D 0A 41 me: Jean-Luc≯⊠A
00110 64 64 72 65 | 73 73 3A 20 | 20 52 6F 6F | 6D 20 6E 65 ddress: Room ne
00120 78 74 20 74 | 6F 20 74 68 | 65 20 62 72 | 69 64 67 65 xt to the bridge
00130 20 6F 66 20 | 74 68 65 20 | 55 53 53 20 | 45 6E 74 65 of the USS Ente
00140 72 70 72 69 | 73 65 0D 0A | 43 69 74 79 | 3A 20 20 0D rprise≯@City: ♪
00150 OA 43 6F 75 | 6E 74 72 79 | 3A 20 20 0D | 0A 50 72 6F
                                                           ■Country: J■Pro
00160 70 65 72 74 | 69 65 73 3A | 20 20 48 65 | 27 73 20 74 perties: He's t
00170 68 65 20 43 | 61 70 74 61 | 69 6E 20 6F | 66 20 74 68 he Captain of th
00180 65 20 00 55 | 53 53 20 45 | 6E 74 65 72 | 70 72 69 73 e .USS Enterpris
00190 65 20 21 21 | 21 0D 0A 0C |
                                                           e !!!≯⊠♀
Legend :
```

= CR 0D 0A = LF => (Line Feed)

=> (Carridge Return)

00 = ASCII 0 => (next line)

Structure of the NTE_CONV CSV files 7.2

The are not lots of possibilities to create valid CSV files.

The basic rule is that each parameter is separated by a unique character.

This separator is comma or semicolon.

You may write the names of the parameters in the first line of a file or you may set the values in quotation marks.

Example:

```
Address;City;Country;Firstname;Name;Tel
AnyStreet 1;;USA;George;Clooney;+01/23451/89876
;;;Heather;Graham;Graham;
```

7.3 Structure of the NTE_CONV XML files

XML files are more complex as CSV files are. You may store params as elements or attributes, the values may be stored as element context or attribut values.

Since V2.0.0 NTE_CONV writes the parameters in four different modes (see 5.6.11)

Example for Mode 1:

```
<?xml version="1.0" encoding="ISO-8859-1" standalone="yes"?>
<fileExport from="c:\example.txt" to="c:\example.xml" >
     <record>
          <Firstname>George</Firstname>
          <Name>Clooney</Name>
          <Address>AnyStreet 1</Address>
          <City></City>
          <Country>USA</Country>
```

```
<Tel>+01/23451/89876</Tel>
</record>
<record>
<record>
<Rirstname>Heather</Firstname>
<Address></Address>
<City></City>
<Country></Country>
<Tel/> <!-- Substituted Element -->
</record>
</fileExport>
<!--
...
```

7.4 Transformation of a XML file with a XSLT processor

In 1999 the W3C org. created a transformation language for XML. A derived special part of this language is XSLT. See a universal XSLT script for transformating any NTE_CONV XML file (with a constant number of parameters in its records) into HTML tables

```
<?xml version="1.0"?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:output method="html" encoding="ISO-8859-1" indent="yes" />
  <!-- Universal XSLT script to convert all datasets of a NTE CONV exported
       XML file into HTML - 09/29/2002 by Jens Goedeke -->
  <!-- Wurzelknoten abarbeiten : HTML Grundlagen in Zieldatei schreiben -->
  <xsl:template match="/">
     <html>
       <head>
       </head>
       <body>
          <xsl:apply-templates />
        </body>
     </html>
  </xsl:template>
  <!-- fileExport Knoten : Tabellenrahmen schreiben -->
  <xsl:template match="fileExport">
     <xsl:apply-templates />
     </xsl:template>
```

```
<!-- erstes verfuegbares "Record" auslesen ... -->
<xsl:template match="record[position() = 1]">
   <!-- Erst die Parameterbezeichner (Elementnamen) in die Zieltabelle schreiben
    -->
   <xsl:for-each select="*">
        <b>
              <xsl:value-of select="local-name(.)" />
           </b>
        </xsl:for-each>
   <!-- Dann die Werte (Kontext) des ersten Record in die Zieltabelle schreiben
       Hinweis:
       Nachfolgende Abarbeitung des Knotens "record" wuerde wegen niedriger
       Prioritaet den ersten Datensatz auslassen, da dieser schon hier
       behandelt wird.
   -->
   <xsl:for-each select="*">
        <xsl:value-of select="." />
           <!-- noch einen Zeilenabschluss ( <br>> ) einfuegen, sonst werden
                leere Elemente nicht in die Tabelle geschrieben -->
           <xsl:element name="br" />
        </xsl:for-each>
   </xsl:template>
<!-- Alle weiteren Datensaetze auslesen und deren Werte in die Tabelle schreiben
  -->
<xsl:template match="record">
  <xsl:for-each select="*">
        <xsl:value-of select="." />
           <!-- noch einen Zeilenabschluss ( <br> ) einfuegen, sonst werden
                leere Elemente nicht in die Tabelle geschrieben -->
           <xsl:element name="br" />
        </xsl:for-each>
```

</xsl:template> </xsl:stylesheet>

...this generates:

```
<html>
 <head>
  <meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
 </head>
 <body>
  <b>Firstname</b>
     <b>Name</b>
     Address</b>
     City</b>
     Country</b>
     Tel</b>
    George<br>
     Clooney<br>
     AnyStreet 1<br>
     >
     USA<br>
     +01/23451/89876<br>
    Heather<br>
     Graham<br>
     >
     >
     >
    </body>
</html>
```

The result viewed with a HTML browser:

NTE_CONV - User Manual V0.8

Firstname	Name	Address	City	Country	Tel
George	Clooney	AnyStreet 1		USA	+01/23451/89876
Heather	Graham				

8 Release Notes

NTE_CONV : 2.2.2 New option "File Prescan" (see 5.2)

NTE_CONV : 2.2.1 Error corrections

•

NTE_CONV : 2.0.0 -> V2.2.0

New Features of release 2.2.0 are: Alias support (refer to chapter 3.9) CSV Option "Collect unbounded lines" (refer to chapter 5.4.5)

The calling of the default browser (found in some of the help menu items) has been optimized so that the internet explorer works as well

9 nte_conv_cmd

9.1 Usage

Syntax :

```
nte conv cmd -s:SOURCE [-nof:OPTIONFILE] [-nos:OUTPUTSEQUENCE] [-t:TARGET]
             [-v] [-sp]
or to validate an option file:
nte conv cmd -val -nof:OPTIONFILE [-v]
SOURCE
              A exported structured text file
            option file (Default is SOURCE file with .nof extension)
OPTIONFILE
OUTPUTSEQUENCE output seq. file (Default is SOURCE file with .nos
extension)
TARGET
             target file (Default is SOURCE file with .nof extension)
              Verbose mode
-v
-val
              Validation mode
              Show Process <- don't use this option if you're
-sp
               redirecting output to a file !
```

If only the source file is given, NTE_CONV_CMD requires a NOS (siehe Fehler: Referenz nicht gefunden) and NOF (siehe Fehler: Referenz nicht gefunden) file with the same name (except the file extension) and the same path as the source file. The target file name is build by [source file path]\[source file name].[extension XML or CSV depending on what's selected in the NOF file]

If you want to create or modify a NOF or NOS file by a text editor and not NTE_CONV the formats are described in the following chapter.

10 Examples

Would you like to know how to import Lotus Notes Mail and/or Lotus Notes Contacts into MS-Outlook ? Then you may download the following zip Archive: <u>http://www.goedeke.net/nte_conv/notes2outlook-en.zip</u>

For other examples you may refer to the homepage <u>http://www.goedeke.net/nte_conv_eng.html</u>.