

Immeuble le Péricentre 16 avenue Louison Bobet 94132 Fontenay Cedex Tel: 01 45 14 73 73 Fax: 01 45 14 73 74

TECHNICAL RELEASE - May 2006

www.natsystem.fr

NS-DK 5.00

Introduction

The purpose of this Nat System document is to introduce the orientation of developments in NS-DK version 5.00 available since May 2006.

You will find in this release description:

- Elements relating to the implementation of Nat System's product strategy.
- A summary of the new functionalities offered in NS-DK 5.00
- A list of configurations and platforms supported by NS-DK 5.00
- A list of fixed bugs.

Every effort has been made to ensure the validity and accuracy of the information contained in this document. However, out of a continuing concern for quality and reliability, and for technical, marketing or timing reasons, it is possible that we will have to refine the content in the weeks to come. For this reason, this document cannot give rise to liability on the part of Nat System and does not constitute, therefore, a contractual commitment.

Aim of the version

Nat System's purpose is to offer its customers a better Return on Investment thanks to a high level of durability of their applications investment.

Today, gains made due to the operating and depreciation durability of NS-DK applications produced by our customers gives them a certain competitive advantage.

In the context of its constant search to offer the best tools on the market, Nat System is orienting changes to the next version of its NS-DK product in two major directions:

- To improve durability by supporting new technologies and by enabling many existing NS-DK applications to run under the new architectures with a minimum of changes.
- To increase the productivity of these tools by a revision of NS-DK's graphical interface. These changes in no way threaten our commitment to upwards binary compatibility: existing code will not need to be changed to continue to operate as described in existing documentation.

The new functionalities of NS-DK focus on:

- Modification of the tool interface to further increase productivity and offer developers a more user-friendly environment.
- Suppression of a number of historical limits.
- Upgrade of the NCL language.
- Upgrade of the NCL editor.
- New graphic controls and new display options.
- Better support of the ActiveX.
- Improvement of generation and debugging.
- Improvement of the Web Services interfaces.
- Support of new databases namely:
 - o Oracle 10.2(10g) and Instant Client
 - o DB2 8.2
 - Svbase 15
- Follow-up of environment upgrades.
- Support for the free compilers and database managers.

Note: The lists below are indicative and only represent a subset of the extension modules supplied with NS-DK 5.00

About

By clicking on the Help/About menu you will immediately see which version you are using:

For the official or G.A. version you have Version 5.00.

Upgrades of NS-DK 5.00

Modification of the tool interface.

The principle underlying this new design is to exploit the possibilities of existing screens to the maximum by using the spaces available around windows during development. This allows:

- Easier navigation between the different resources of the projet.
- Better visibility of the properties of the graphical controls.

The workspace is divided into 4 major zones:

- The menu bars with their two tool bars at the top.
- The resources **browser** to the left.
- The graphical control **property pane** to the right.
- The **working area** which permits the editing of windows and NCL scripts (libraries and events).

The **shortcuts** have been changed to be more similar to the Microsoft standard.

New XML project format.

At its clients' request Nat System has decided to adopt a more open project format thereby allowing you to eliminate the historical limits linked to the former binary project format. This new format can be read by the users and is better managed by Version control software. Moreover, automatic conversion from the former PRJ format to the new XNP format has been added to NS-DK.

Deleting historical limitations

The 64 KB limitation for NCL (libraries) and SCR (screen) type resources will be removed.

The limit on the NS-DK workspace path has been eliminated; in future you will be able to create a workspace under a directory with a long name containing blanks such as: C:\Documents and Settings\My documents.

Enhancement of the NCL language.

NCL language will evolve thanks to the introduction of new APIs as well as new types.

New DynStr type

This new type will permit the definition of character strings without their size having to be defined. The size of the variable will be adapted automatically according to its contents.

The size of the contents is not limited to 255 characters.

The conversion of a DynStr type variable into a CString will be automatic and vice versa.

DynStrs will therefore be usable with functions/instructions taking CStrings as a parameter. However, certain APIs have been optimized for DynStrs.

Extension of the POS% function

The POS% function will evolve thus allowing to search the position of a character string occurrence in another character string. Search for the nth occurrence from a precise position.

Changes to NCL services

A large number of NS-DK NCL services have parameters defined as INT(4) although in fact they are POINTER.

Version 5.00 corrects this anomaly in order to facilitate future upgrades of your architecture. The behaviour remains unchanged for your Windows 32 bit applications.

Passing parameters to an event

Passing a parameter the size of which is greater than 2 bytes to an event requires it to be broken down into two, 2 byte words prior to its being passed, via the Hiw and Low instructions.

With version 5.00 this prior breakdown will no longer be necessary; it will be possible to use the syntax:

SEND EXECUTED POINTER TO NOMCONTROL

Instead of:

SEND EXECUTED Low POINTER, Hiw POINTER TO NOMCONTROL

This change of syntax is also valid for the instructions POST, OPEN, CALL, etc.

New NCL services

New NCL services will permit the implementation of the INI format files management.

Upgrade of NSWIN

The NSWIN.NCL service will be extended by functionalities specific to the Windows environments. The following functionalities will be added:

- Management of the Windows Registry in order to implement APIs to access the Windows registry database.
- Management of the position of the mouse pointer in order to provide APIs permitting recovery of the position of the mouse under Windows.
- ATTACHCHILDWINDOW has been improved and allows to resize the 'child windows'
 dynamically in the parent window by the end user. This allows to produce highly interesting
 interfaces.

Enhancement of the NCL editor.

The NCL scripts editor (libraries and events) has been improved it allows auto-completion of NCL verbs by pressing the [Ctrl]+spacebar keys.

Graphical controls and display.

Nat System will respond to several client concerns at the level of the NS-DK applications produced. The two areas are:

- A response to the problem of displaying a NS-DK application when there is a change of screen resolution.
- The provision of new controls or new functionality to existing controls.

Control anchoring

When a NS-DK application is being run on large screens, the user often expects to see more information when he resizes the application window.

He also wants the controls to remain attached globally in relation to the upper left-hand corner. In order to permit this, Nat System is offering the option to "anchor" a control in NS-DK 5.00.

NS-ScreenExploser

This module responds to another issue: the size of characters becomes too small for users when you change screen or machine.

This module lets you, via configuration of the NSLIB.INI file, change the size of the various NS-DK controls: controls such as CheckBox or RadioButton which do not change size with anchoring are impacted by ScreenExploser.

The size of the characters is changed. You do not see more information, but it is larger.

Redefinition of the graphical origin

With the screen upgrades some clients want to split their screen in various zones so that the NS-DK application runs in one of these zones. It is currently necessary to update one window at a time in order to modify the origin of the windows whose position is relative to Windows office.

In NS-DK 5.00, it is now possible to redefine the position of the desktop origin (0,0) for an NS-DK application.

Control List

The SheetBox control lets you create simple lists (like a ListBox) but also lists in tree format.

This control is changing with version 5.00: it will be possible to define via its properties box:

- Title colours
- The colour of even and odd lines
- The colour of even and odd columns.
- To fix one or more columns to the left.
- To define an on-line entry format for each column.

In addition, it will be possible to define via programming:

- The colour of a cell.
- The option for a user to move columns via Drag & Drop.
- The option to sort a column by clicking on the column title.

Addition of external menus.

Version 5.00 of NS-DK introduces a new type of resources: external menus. It is now possible to reuse these resources via the projects and leave menu management to the new API (addition of bitmaps for the menu item, toolbar management and menu merger for MDI applications) and runtime.

Generation and debugging improvements.

Developments in NS-DK version 5.00 are oriented according to two directions:

- Optimization of the generator in order to support 64-bit targets.
- Simplification of debugging operations.

Automatic trace generator

NS-DK 5.00 will provide developers with a new generation option which will permit automatic generation of traces during a call to a function/instruction and its exit, as well as the entry and exit of an event.

The developer will be able to follow the progress of the execution of his application.

NS-Debugmem

This utility will be provided in version 5.00. It lets you detect memory leaks during execution of an NS-DK application.

Memory leaks are detected independently of their impact on execution. it will be possible to correct stability problems simply.

Optimisation for 64 bits

Generation is changed so as to become compatible with 64-bit targets. Certain automatic transtyping mechanisms taken care of by the generator have thus been improved.

Improvement of the Web Services interface

The Web Services import assistant was introduced with NS-DK3.00. NS-DK 5.00 improves and simplifies the use of this interface by using the new options offered by the NCL language. Nat System also commercialises a Web Service publication service based on existing NCL Libraries.

Support of new databases

- An effort has been made to support new versions of the most common databases. Indeed this new version will allow you to work with the same facility with Oracle 10.2, DB2 8.2, Sybase 15.
- It is now possible to use an Instant Client type connection to Oracle 10 g which will simplify the deployment process.
- In addition to MySQL, it is also possible to use the Express (free) versions of the following databases: Oracle, DB2, Sybase, Sql Server.

Support of new configurations

- This version was successfully tested on the new SP2 version of Windows XP.
- A new graphic target Linux KDE on Red Hat Enterprise version 3.0 was also tested with success

Free support of compilers and database engines

- At the request of its clients and in order to reduce the cost of development budget Nat System has validated the use of Microsoft's free compiler, i.e. the Visual C++ toolkit.
- Nat System also successfully tested the above-mentioned free databases

NB: The technical bulletin of NS-DK 3.00, describing all the improvements and extensions developed for NS-DK 3.00 and integrated in NS-DK 5.00, is available on the enclosed CD.

Supported configurations

Note that Nat System only guarantees the support and compatibility of the environments listed below.

NS-DK 5.00: development environment

The following 32 bit operating systems are supported:

- Windows 2000 service pack 4
- Windows XP service pack 1 and pack 2

The compilers supported are:

- Microsoft Visual Studio 98
- Microsoft Visual Studio 2003
- Microsoft Visual Studio 2005
- Microsoft C++ Compiler Toolkit (free).

NS-DK 5.00: client environment

List of compatibilities and configurations supported by NS-DK client 5.00.

Windows NT4 SP6a, 98 SE

The following DBMS pilots are supported:

- DB2: 6.1, 7.2
- Oracle version 8i: 8.1.7
- Oracle version 9i: 9.0.1
- Oracle version 9i release 2: 9.2.0
- Sql Server: 7.0, 2000
- ODBC 3.51
- Sybase 12.5.3, 15.0
- MySql 4.0

Windows 2000 SP4

The following DBMS pilots are supported:

- DB2: 6.1, 7.2, 8.2
- Oracle version 8i: 8.1.7
- Oracle version 9i: 9.0.1
- Oracle version 9i release 2: 9.2.0
- Oracle version 10.1
- Oracle version 10.2
- SQL Server: 7.0, 2000
- ODBC 3.51
- Sybase 12.5.3, 15
- MySql 4.0
- IConnect 2.5.TC1 for Informix 9.4

Windows XP (32 bits)

The following DBMS pilots are supported:

- DB2 7.2, 8.2
- Oracle version 9i: 9.0.1
- Oracle version 9i release 2: 9.2.0
- Oracle version 10.1
- Oracle version 10.2
- Sql Server 2000
- ODBC 3.51
- Sybase 12.5.3, 15
- MySql 4.0

Linux RedHat Enterprise 3

The following DBMS pilots are supported:

- Oracle version 8i: 8.1.7
- Oracle version 9i: 9.0.1
- Oracle version 9i release 2: 9.2.0
- Oracle version 10.1
- Oracle version 10.2
- Mysql 3.2

The supported compiler is:

• GCC (GNU Compiler Collection) 3.2.2

Support of third products by their respective editors

- Oracle version 8i is no longer supported by Oracle since end 2004
- Microsoft no longer supports NT since end 2004
- Windows 98 will no longer be supported by Microsoft after June 2006

Product retirement

A version's technical state

The status of each technical state of a version passes successively from "current" to "transition" to withdrawn".

A technical state starts with the general availability of a major, minor or maintenance version and results in:

- The assignment of "current" status to this version of the product
- The assignment of "transition" status to the previous "current" version of the product
- The assignment of "withdrawn" status to the previous "transition" version of the product

The table below summarizes the respective services guaranteed for the "current", "transition" and "withdrawn" versions of a product.

Sale: technical state available for sale.

Changes: operational coverage of the product changes with the next versions.

Bugs: analysis and correction of bugs is scheduled in current or future versions according o priorities.

Version increments: the product is ported onto new versions of the operating systems.

Use: assistance (helpdesk) is guaranteed by the Hot-Line center.

	Sale	Evolu.	Bugs P=0	BugsP=1,2,3	Version increments	Use
Current	Yes	Yes (1)	Yes	Yes	Yes	Yes
Transit	No	No	Yes	No	No (2)	Yes
Retirée	No	No	No	No	No	No

- (1) The current version changes with the next technical state of the product.
- (2) In some circumstances, version increments may be symmetrically compatible with the previous technical state in transition.

Nat System supports a version of its products for a minimum period of three years. A version is supported for a minimum period of 1 year as a current version, then for a minimum period of 1 year as a transition version of the product.

Version 1.60 will be withdrawn from the first october 2006.

Version 3.00.2 will be maintained in transition until the release of version 6.00 (non contractual designation) which is planned for the second half of 2007.

Version 5.00 replaces version 3.00.2.

List of fixed bugs in 5.00

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7522 oracle password cannot contains a '!'		
7591 evention when edgts section in vml buffer cont to a jave web comice		
	7521	exception when cdata section in xml buffer sent to a java web service
7519 Webservices: Pb when i include accent characters in my description		
7516 The event DTN_CHANGEDATETIME is not notified under XP for a date time picker	7516	The event DTN_CHANGEDATETIME is not notified under XP for a date time picker

7513 If you import the atached xml file you get the attached error log trace.txt 7505 Bad refresh for the combo box 7504 Difference if we insert an empty estring to the sybase database 7501 The backspace or the cursors move (or erase) 2 characters at the same time 7497 Keyboard shortcuts for Tab folder (classifier) only work in last opened window 7494 Classifier: implement AUTOWIDTH, TABINDENT and BOLD dynamic paramet 7493 cannot set a user/password with NS_SOAPHTTP_SET_PROXY 7492 Client WebServices does not import a service with a parameter of the same name 7483 the string\$ lost the sign with a specific format 7480 The wsdl URI has already been specified, list return code:1 7477 trap when you load a lisbox with lines containing integers 7478 If you migrate an multi taget NSDK project you get a problem 7474 REPORT_INFO% returns always the unit in pixel 7472 REPORT_GETCOLUMN\$ returns nothing 7469 ODBC connexion without defining a DSN 7468 if you insert more than one line in a MLE the Vertical Scrollbar is enabled 7460 a refto seems to be null but it is not	
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7461 compilation error due to nswccapi.h	
7460 a reft o seems to be null but it is not	
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7459 Error 32120:NSSQLE120 ** INVALID NCL TYPE FOR ITEM	
7447 the web services dialog includes a push buton called List Service >>	
7446 When I import 2 webservices and Use the same prefix I get Problems	
cannot see the bitmap of the picture button when we check Preload	
7427 anomalous size of the focus on a radio-buttons control	
7285 Want to block all warnings from Oracle	
7200 icon of a window is not shown in interpreted mode	
7176 We should mention that when we use DDE events we should not use timer 1	
7073 Problem with combo box with selection	
6989 compiler not found when path is greater than 255 chatacters	
6677 limit: maximum size for a bitmap is 64ko	
6658 Tabulation problem with OCX.	
6484 Tabulation problem with Tabs contol	
6464 Wrong event order with NSTEST, and loss of parameters.6081 IfDate% function returns true% if Date is empty or empty string	
2705 leading blanks are not saved in nscalc format	
2704 nsacalc sheet badly paint when some line height is set to zero	
2703 NSWP2/P ERROR HBD ID 1966(0x6)	
2698 Error 12 is returned if the file is not found by t_append%	
2697 CALC_SCROLL_UP erases the unselected lines	
2696 calc_setheading insert a blank line	
2695 nsreport is no longer a report editor it's a file editor now !!!	
2694 Genration error when lines terminated by LF (or CR) only are pasted into a	
2693 When an MLE is only one line high, cannot scroll by moving the cusror in the	
2692 Wrong MLE default bacground color in NS-Design	
2691 Exception when changing border kind of a dialog containing an XMLE	
2690 Exception on Template containing a Picture Button	
2689 mysql: sql_exec ns_function listcolumns :c1\$, :c2\$ does not work	
2685 We want to be able to parametrise the colors in NSDK	
2684 bad position for nsreport child window.	
2683 Trap under Win98 with treeview	
2682 Specific Printing bug	
2680 In Sheet Tree Box, Horizontal Scroll Bar doesn't permit to see last characters	
2679 Cannot print a pdf file with adobe 6.0 and save it without the message box	
2678 Change the font dynamically on a combobox, its size is not adjusted anymore	
2677 dynamic menu : trap when insert two pulldown menus	
2675 wrong function parameter value when function is in another dll	
2674 cannot print code in nsdk 3.00 and windows 98	
2673 picture button bitmap not shown when preload is checked and is in a template	
2672 assertion when paste from nswp to nswp in NSWPFORM 2138	
2670 The classifier does not have the nbrows in dynamic parameter	

2666	want to manage https with nshttp library
2665	shortcut and dynamic menu
2664	Bad refresh with the functions TAB_ADD_TAB and TAB_DEL_TAB for the classifier
2662	Erreur avec NSTest lors de l'appel fonction passe en parametre
2661	NSStrCmp%
2660	Buf\$(Ind%) ne marche pas si Ind% > 32767
2655	the events associated with the menu are not working under xp with cross-system
2654	Problem sorting in ascending mode with a listbox control
2653	NSW2Sort : QSort and comparaison de chaines accentuees
2651	Disksize% and diskfree% return wrong value
2650	cannot be prevented from using XP look
2649	Cannot copy and paste from office XP to NS-WP
2647	With NSDBR, ALTER TABLE returns error SQLEX-022
2645	Error nsgpi/p 1234 with the function GetPathNameWithRelief\$
2644	Sheet Tree Box réinsertion de bitmaps après destruction des lignes
2643	Sheet Tree Box STV DETACH%
2642	CB + Tabulations + DefaultBackGround + Disabled
2641	Evolution SheetTreeBox: STV_GetColNumberFromX
2640	Visibilité de la derniere colonne d'une SheetTreeBox
2639	Sheet Box Info
2637	SVT_SetCellBitmap KO for Line% > 0
2635	Check Ind% = UnknownFunction%()
2634	Classifiers and MultiTarget projects are incompatible
2633	TAB_SETSELECTABLE_TAB does lock the controls of the tab dialog
2630	Dynamic Background color for a classifier does not behave correctly
2610	GetPathName\$ tronque le nom complet du fichier sélectionné
2601	Manque NSMisc : GETDESKTOP*%
2574	MB SYSTEM% CONSTANT is obsolete
2510	Lock d'un WCC
2502	NEW d'une constante en dur donne un warning a la compilation
2434	Getdir\$ return uppercased strings in 1.56
2406	invalid resource: if a file for comboboxe init start with a number
2370	C generator : pb with index of segment.
2307	Problem using instruction change hdlwnd% to x,y,w,h
2293	WITH SOME WIDTH, BORDER OF CLASSIFIER BADLY DRAWING
2292	NOT CORRECT DRAW OF A CLASSIFIER IF THE SIZE IS REDUCED
2290	HELP ON THE INFO BOX FOR A TABS HAS NO EFFECT
2170	POINTER Type can not be used with instruction UnloadDll nor GetProc
1801	No help on line for new 1.53 events and instructions
1379	NS-Design 1.53: 5/5 checks all resources
1081	A bitmap with 65535 colors badly displayed in test and binary modes
915	No more one hlpinitialize in same time
839	Bug in the documentation of SubclassCallBack
831	NSFEXE Startexecute2% On Line Help example incorrect
806	INTEGER is replaced by INT(o) in the help field of NS-Design event box
763	CREATEBMP% does not evaluate environment variables all OS
663	Unsupported syntax for INVALIDATE (Documentation error)
365	B-940622/12Set Font de NS-Design disable after selection of a button
213	B-940720/02Bug de doc sur MB_HELP% (obsolete)
J	

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