

Natural

Release Notes for Natural Version 9.1 for Windows

Version 9.1.3

October 2021

This document applies to Natural Version 9.1.3 and all subsequent releases.

Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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1 Release Notes for Natural Version 9.1 for Windows

These Release Notes summarize the new features, changes and enhancements that are provided with Natural Version 9.1. The following topics are covered:

Release Information for Natural Version 9.1.3
Release Information for Natural Version 9.1.2
Release Information for Natural Version 9.1.1

For information on the supported operating system platforms and other requirements for the current version of Natural, see *System Requirements* in the *Installation* documentation.

Due to last-minute documentation updates, it may be possible that the online help that you can invoke directly from the product does not yet contain the latest information. The most up-to-date Natural documentation can always be found on the Software AG documentation website at <http://documentation.softwareag.com/> (Empower login required).

2 About this Documentation

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Document Conventions

Convention	Description
Bold	Identifies elements on a screen.
Monospace font	Identifies service names and locations in the format <i>folder.subfolder.service</i> , APIs, Java classes, methods, properties.
<i>Italic</i>	Identifies: Variables for which you must supply values specific to your own situation or environment. New terms the first time they occur in the text. References to other documentation sources.
Monospace font	Identifies: Text you must type in. Messages displayed by the system. Program code.
{ }	Indicates a set of choices from which you must choose one. Type only the information inside the curly braces. Do not type the { } symbols.
	Separates two mutually exclusive choices in a syntax line. Type one of these choices. Do not type the symbol.
[]	Indicates one or more options. Type only the information inside the square brackets. Do not type the [] symbols.
...	Indicates that you can type multiple options of the same type. Type only the information. Do not type the ellipsis (...).

Online Information and Support

Software AG Documentation Website

You can find documentation on the Software AG Documentation website at <https://documentation.softwareag.com>.

Software AG Empower Product Support Website

If you do not yet have an account for Empower, send an email to empower@softwareag.com with your name, company, and company email address and request an account.

Once you have an account, you can open Support Incidents online via the eService section of Empower at <https://empower.softwareag.com/>.

You can find product information on the Software AG Empower Product Support website at <https://empower.softwareag.com>.

To submit feature/enhancement requests, get information about product availability, and download products, go to [Products](#).

To get information about fixes and to read early warnings, technical papers, and knowledge base articles, go to the [Knowledge Center](#).

If you have any questions, you can find a local or toll-free number for your country in our Global Support Contact Directory at https://empower.softwareag.com/public_directory.aspx and give us a call.

Software AG Tech Community

You can find documentation and other technical information on the Software AG Tech Community website at <https://techcommunity.softwareag.com>. You can:

- Access product documentation, if you have Tech Community credentials. If you do not, you will need to register and specify "Documentation" as an area of interest.
- Access articles, code samples, demos, and tutorials.
- Use the online discussion forums, moderated by Software AG professionals, to ask questions, discuss best practices, and learn how other customers are using Software AG technology.
- Link to external websites that discuss open standards and web technology.

Data Protection

Software AG products provide functionality with respect to processing of personal data according to the EU General Data Protection Regulation (GDPR). Where applicable, appropriate steps are documented in the respective administration documentation.

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Strategy Regarding the Legacy-Unix Platforms

We would like to inform you that, after a detailed analysis & assessment, Software AG has decided to adjust its strategy regarding the Legacy-Unix platforms HP-UX®, AIX® and Solaris®. With many of our customers already departed from or soon planning to depart their Legacy-Unix platforms due to cost and technical reasons, Software AG has decided Linux x86 will be its strategic open systems platform for Adabas & Natural 2050+ going forward. This will allow Software AG to focus more resources on this platform and maximize the overall value to our customer base.

The end-of-maintenance date (EOM) for Software AG support of the Legacy-Unix platforms is December 31, 2024. For the period from December 31, 2024 to December 31, 2025 Software AG will offer options for non-standard sustained support on the Legacy-Unix platforms for customers who are unable to rehost by the regular EOM date. Both dates apply to all Software AG A&N products (excluding CONNX, which will still be available on Legacy-Unix).

This will provide you with more than five (5) years to rehost your Software AG applications from the legacy-Unix platform to your preferred Linux x86 platform(s). Software AG recommends one of the following rehosting options:

- RedHat Enterprise Linux®
- SUSE Linux Enterprise

Please be assured that Software AG is prepared to offer assistance in planning and executing your rehosting from the Legacy-Unix platform to an alternative platform.

Following the principles of our "A&N 2050+ Initiative", your rehosting project will be a high priority to Software AG. Our local Software AG teams will be happy to discuss any rehosting topic with you.

If you have any questions regarding the Adabas & Natural platform roadmap, please do not hesitate to contact Adabas & Natural Product Management (e-mail: AskANProdMgt@softwareag.com).

For the Adabas & Natural products on the Legacy-Unix platforms HP-UX®, AIX® and Solaris® we currently plan the following final versions:

	Final Version (GA)	EOM	EOSS
Adabas HP-UX®	6.7.0, October 2018	31.12.2024	31.12.2025
Adabas AIX® and Solaris®	7.0, October 2020	31.12.2024	31.12.2025
Natural HP-UX®	9.1.1, October 2018	31.12.2024	31.12.2025
Natural AIX® and Solaris®	9.1.3, April 2021	31.12.2024	31.12.2025

Installation

Simplified access rights

Starting with Version 9.1.3, Natural will no longer make use of the Windows User Group "SAG Natural Users" anymore. Instead, to simplify the access control, the default Windows User Group "Interactive" will be used, as with other Software AG products.

This also implies that the reboot, that was required in previous Natural versions after creating the Windows user group "SAG Natural Users", is no longer necessary.

Installation of fixes during a first-time installation

It is now possible to install fixes with the Software AG installer during a first-time installation. See also the documentation of the *Software AG Installer* for further details.

New Features

The following new features are available with this version:

- [SYSLVERS Utility](#)
- [Application Programming Interfaces](#)

SYSLVERS Utility

The new utility SYSLVERS can be used to list objects which have been cataloged within a selected Natural version range.

For further details, see SYSLVERS in Tools and Utilities.

Application Programming Interfaces

The utility SYSEXT provides the following new application programming interface (API):

API	Description
USR3004N	<p>This API is used to maintain the internal fast locate table. Options are available to activate, deactivate or clear the fast locate table. The current state and statistical data can be retrieved.</p> <p>For more information, see <i>Maintaining the Fast Locate Table</i> in the section <i>Fast Locate</i> in the <i>Operations</i> documentation.</p>

Changes and Enhancements

The following changes and enhancements are available with this version:

- [PECK Parameter](#)
- [ECHECK Parameter](#)
- [PCHECK Parameter](#)
- [Improved Buffer Pool Search Performance](#)
- [Adabas Support](#)
- [Object Handler](#)

PECK Parameter

A new Natural profile parameter has been added which controls whether a compilation check with the `ECHECK` or `PCHECK` option of the `COMPOPT` system command (see `COMPOPT` in the *System Commands* documentation) terminates after a syntax error is detected in the object source. In addition, `PECK` determines how the syntax errors are reported.

The default option is `L`. With the `PECK` option, compilation will not stop at `PCHECK/ECHECK` errors. Instead, it collect them. This can be viewed using the `LASTMSG` command.

Available options are: `L`, `WL`, `F`, `WF`, `S` and `WS`.

For further details, see `PECK` in the *Parameter Reference*.

ECHECK Parameter

A new option has been added to the `COMPOPT` system command which checks for the existence of an object that is specified in an object calling statement, such as `FETCH [RETURN/REPEAT]`, `RUN [REPEAT]`, `CALLNAT`, `PERFORM`, `INPUT USING MAP`, `PROCESS PAGE USING`, `function call` and `helproutine call`.

The existence check is based on a search for the cataloged object or for the source of the object when it is invoked by a `RUN [REPEAT]` statement.

Available options are `ON` and `OFF`.

The default value is `OFF`.

For further details, see `ECHECK` in the *Parameter Reference* and the `COMPOPT` system command in the *System Commands* documentation.

PCHECK Parameter

The behavior of the PCHECK parameter has changed for function calls. A parameter check between a function call and a function prototype is performed independently of the PCHECK option. Similarly, a parameter check between a function call and a function GP is also performed independently of the PCHECK option.

PCHECK=ON

- After a function call and function prototype parameter check, an additional check is done between the function call and the function GP (if present).
- If an (IR=) clause is present, a parameter check between the return data type of the function GP and (IR=) is done.

PCHECK=OFF

- After a function call and function prototype parameter check, no additional check is done between the function call and the function GP (if present).
- No check is done for a return datatype of an (IR=) clause and function GP.

PCHECK-dependent checks return Natural error with 9XX. For example, NAT0935, NAT0936, NAT0966, NAT0969 and so on., whereas PCHECK-independent checks return the errors NAT0648 and NAT0651.

For further details, see PCHECK in the *Parameter Reference*.

Improved Buffer Pool Search Performance

An internal fast locate table is now used to allow execution of fast locate calls for objects loaded into the buffer pool. Fast locate calls improve load performance of objects that are frequently re-loaded or searched in steplib libraries.

Use of the fast locate table depends on the setting of the BPSFI profile parameter. The fast locate table can also be activated or deactivated with the new application programming interface USR3004N (see [Application Programming Interfaces](#)).

For more information, see *Fast Locate* in the *Operations* documentation.

Adabas Support

Keywords ADA and ADA2 are Handled Synonymously

The former distinct database types ADA and ADA2 have been comprised into one database type.

The keywords ADA and ADA2 are handled synonymously now. ADA can be used in all situations where formerly ADA2 was required.

For detailed information refer to *Adabas Database Management Interfaces ADA and ADA2* in section *Accessing Data in an Adabas Database* of the *Programming Guide* documentation.

Support of Adabas ADATCP

Natural has been enhanced to support Adabas ADATCP when accessing Adabas databases. For detailed information refer to section *Natural and Adabas Access > Adabas ADATCP Access*.

Object Handler

The `FIND` direct command of the Object Handler now also considers the save and catalog date of a Natural object in an object search operation with specified date/time range.

For more information, see the new `DATECHECK` option of the *select-clause* described in *Syntax of Natural Library Object and DDM Selection*.

Natural Development Server

Natural Development Server is released with the same version number as Natural for Windows. In addition, the following has been enhanced:

- [SSL](#)
- [List Natural Mainframe Objects in the Studio Views](#)

SSL

The name of the certificate file has changed from *server.cert.crt* to *ndo.server.cert.crt* and the name of the key file has changed from *server.cert.key* to *ndo.server.cert.key*.

List Natural Mainframe Objects in the Studio Views

When a huge number of objects are contained in a library, the listing of these objects in the Natural Studio views can take a long time. With Natural for Mainframes version 9.1.2 on z/OS, a new hyperdescriptor is provided that can significantly improve the database access required for this purpose. The installation of the hyperdescriptor is described in *NaturalONE in a Nutshell > Performance Aspects* in the NaturalONE documentation.

Natural RPC (Remote Procedure Call)

Natural RPC (Remote Procedure Call) is available as a separate subcomponent of Natural. It has its own version number. This measure takes into account that Natural RPC is a cross-platform component and makes it possible to provide new Natural RPC versions independent of new Natural versions for the various platforms supported.

With Natural Version 9.1.3, an enhanced Natural RPC Version 9.1.3 is delivered. This version contains error corrections. In addition, the following new functionality is provided.

- [Extended Password Length](#)

Extended Password Length

It is now possible to use passwords with a length of up to 128 characters.

Natural Security

The following enhancements are provided with Natural Security Version 9.1.3:

- [Library Profiles - FDIC DBID Zero](#)
- [File/DDM Profiles - Copying With Links](#)
- [DDM Profiles - Selection List](#)
- [Natural Development Environment - DDMs in Natural Server View](#)

- [Natural Development Environment - Support of SYSLSO Command](#)

Library Profiles - FDIC DBID Zero

In the Library File section of library profile, you can now specify 0 (zero) as the FDIC database ID: this means that the DBID value of the FDIC profile parameter will apply.

File/DDM Profiles - Copying With Links

The file/DDM maintenance functions *Copy File* and *Copy DDM Profile* provide the new option **With Links**. It allows you to also copy the links of libraries from the "old" file/DDM profile to the "new" one. Both functions allow you to select which links you wish to copy and which not.

DDM Profiles - Selection List

The information displayed on the DDM selection list has been enhanced: Column **P**, which indicates whether a DDM security profile exists, now differentiates between DDM security profiles with and without corresponding DDMs. See *Creating and Maintaining DDM Security Profiles*.

Natural Development Environment - DDMs in Natural Server View

The display of DDMs in the Natural Server view in an Eclipse environment under Natural Security has been changed: DDMs are no longer represented as a separate node, but are now displayed as a group node under the library node. See *Protecting the Natural Server View* under *Protecting the Natural Development Environment in Eclipse*.

Natural Development Environment - Support of SYSLSO Command

The use of the NaturalONE command SYSLSO, which determines the library search order for private-mode libraries, can now be controlled by Natural Security. See *Protecting the Navigator View* under *Protecting the Natural Development Environment in Eclipse*.

Removed Features

Features that have been removed, which had been announced in the Release Notes for Version 9.1.2 and are no longer available with Version 9.1.3:

Database Servers Supported via Entire Access

As announced in the previous release, Entire Access does no longer support the database servers Informix and Sybase. No new features, patches or updates related to Informix and Sybase will be provided as of this release.

Notice of Future Changes

The following will be changed in upcoming releases of Natural:

Support for Natural Reporter on Windows

The Natural Reporter allows for comfortable graphical formatting and output of business data.

With the end-of-maintenance date (EOM) for Natural for Windows Version 9.1.2 on April 30, 2021, Software AG will drop the support for the Natural Reporter. The October 2020 release of Natural Version 9.1.3 will not include the Natural Reporter package.

Objects Cataloged with Versions Below Natural Version 5

The execution of Natural objects cataloged with versions below Natural Version 5 will no longer be supported. A recatalog with Natural Version 5 or higher is required.

In order to identify Natural objects cataloged with versions below Natural Version 5, the new Natural system command `SYSLVERS` may be used. Please refer to the documentation of Natural System commands for further details.

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Changes and Enhancements

The following changes and enhancements are available with this version:

- [Adabas MULTI-FETCH Support](#)
- [DEFINE DATA as Source Format for Data Areas](#)

Adabas MULTI-FETCH Support

The Adabas multi-fetch functionality is now also supported for the database type `ADA2`. For detailed information refer to *MULTI-FETCH Clause* in section *Accessing Data in an Adabas Database* of the *Programming Guide* documentation.

DEFINE DATA as Source Format for Data Areas



Note: The following only applies when using Natural for Windows as a development server and NaturalONE as a client.

Starting with Natural Version 9.1.2., all types of data area sources (local, parameter and global) will be saved using the `DEFINE DATA` format. This means that a data area source only consists of a `DEFINE DATA` statement followed by data definitions and comments.

For details refer to `DEFINE DATA` in the *Statements* documentation. For further recommendations, please refer to *Data Area Editor* in the *Editors* documentation.

Natural Development Server

Natural Development Server is released with the same version number as Natural for Windows.

Natural RPC (Remote Procedure Call)

Natural RPC (Remote Procedure Call) is available as a separate subcomponent of Natural. It has its own version number. This measure takes into account that Natural RPC is a cross-platform component and makes it possible to provide new Natural RPC versions independent of new Natural versions for the various platforms supported.

With Natural Version 9.1.2, an enhanced Natural RPC Version 9.1.2 is delivered. This version contains error corrections. New functionality is not provided.

Natural Security

The following enhancements are provided with Natural Security Version 9.1.2:

- [Maximum Number of Logon Attempts](#)
- [Lock User Option](#)
- [User Preset Values](#)
- [Authentication Options \(LDAP\)](#)
- [Application Programming Interfaces \(APIs\)](#)
- [SECLOAD](#)

Maximum Number of Logon Attempts

The Administrator Services general option **Maximum Number of Logon Attempts** has been changed: its maximum value, which used to be "5", is now "9". The default value continues to be "5".

Remember that the setting of this option also applies to the following application programming interfaces: NSC---P, NSC--PH, NSC---SP, NSC----P and NSC--PHS.

Lock User Option

The Administrator Services general option **Lock User Option** provides an additional value "Z". It corresponds to "X" - in addition, the following applies: If the user ID corresponding to the value of the Natural system variable *INIT-USER is locked, the Natural session *cannot be started with any user ID* (neither with AUTO=ON nor with AUTO=OFF).

User Preset Values

The value for the user profile component **Change password after *nnn* days** can now be pre-defined in the **User Preset Values** section of Administrator Services.

Authentication Options (LDAP)

Two enhancements to Administrator Services **Authentication Options**:

- User authentication via an LDAP server is now also possible for the Natural Development Server.
- The components of the LDAP security profile provide a new option **Start TLS connection**. It can be used to attempt to set up an encrypted communication over the plain LDAP port if the LDAP server supports this.

Application Programming Interfaces (APIs)

The application programming interface `NSCADM` has been enhanced and can now be used to also process logon/countersign error records.

SECLOAD

The `SECLOAD` program for loading Natural Security data provides a new option **Expire passwords for loaded user profiles**. It can be used to enforce a password expiration for all loaded user profiles (user types A, P, M), which means that these users will have to change their passwords at the next logon.

Documentation

The following documentation changes have been applied with this version:

- [SQL Statements Revised](#)

SQL Statements Revised

The section *Using Natural SQL Statements* and the descriptions of the `DELETE`, `INSERT`, `SELECT` and `UPDATE` SQL statements have been revised with this release.

Notice of Future Changes

The following will be changed in upcoming releases of Natural:

- [Database Servers Supported via Entire Access](#)

Database Servers Supported via Entire Access

With an upcoming release of Entire Access, we will discontinue the support of the database servers Informix and Sybase. No new features, patches or updates related to Informix and Sybase will then be provided any longer. Only updates and patches that have been developed already will still be available.

Any concern regarding the discontinuation of this support, please address to your global support organization.

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Installation

System Requirements

The system requirements for the current version of Natural are now listed in the *Installation* documentation.

Compiler Used to Build Natural

With Natural for Windows Version 9.1.1, a different compiler version was used to build and test Natural: Microsoft Visual Studio 2015. See also *Compiler Used to Build Natural* in the *Installation* documentation.

Migrating Applications to Version 9.1

Applications that were created with Natural for Windows Version 3.1 and above can be executed with Version 9.1.

New Features

System Variables

The following system variables are now available:

Variable	Description
*EDITOR	The new *EDITOR system variable returns information on whether the Natural program, data area and map editors are enabled (activated).

Changes and Enhancements

AT BREAK Statement

The behavior of an `ESCAPE` in an `AT BREAK` statement has been changed due to compatibility reasons with Natural for Mainframe.

When an `ESCAPE ROUTINE` or `ESCAPE BOTTOM` is processed in an `AT BREAK` statement, the `AT BREAK` processing is stopped. If there are multiple `AT BREAK` blocks in the processing loop, no further `AT BREAK` statement is executed for the current processing loop.

When the processing loop is terminated and an `ESCAPE ROUTINE` or `ESCAPE BOTTOM` is processed in the final `AT BREAK` processing, the `AT BREAK` processing is stopped and no further `AT BREAK` block is executed.

Refer to `AT BREAK` in the *Statements* documentation for further details.

EXAMINE Statement

The syntax of the `EXAMINE` statement has been enhanced with the following effects:

- An `EXAMINE` statement with a multi-character wild character (`*` or `%`) at the beginning or at the end of the search-pattern, matches now only to the next delimiter (if delimiters are used). This can lead to a different result.
- In general, a mirrored `EXAMINE` now delivers the mirrored result. That means, if you swap the characters (first to last, etc.) of the inspected field and of the search-pattern, and change the direction from `FORWARD` to `BACKWARD`, the resulting field contains the swapped value of the non-mirrored `EXAMINE`.

Refer to `EXAMINE` in the *Statements* documentation for further details.

ETID Parameter

The behavior of the `ETID` parameter has been changed. If the `ETID` is not specified, neither in `NATPARAM` nor dynamically, Natural uses the setting of `*INIT-USER` to fill the `ETID`. This also applies now, if Natural Security is used.

If you want to use the `ETID` from Natural Security, you have to set the `ETID` parameter to `OFF`.

Refer to *ETID - Adabas User Identification* in the *Parameter Reference* documentation for further details.

CATALL Command

The option to automatically renumber the source-code lines of sources that were saved or stowed is now deactivated by default. If you want to use automatic renumbering, you now have to activate this option. Refer to `CATALL` in the *System Commands* documentation for further details.

Statistical Information in NATBPMON

When using the command line version of the Buffer Pool Monitor (`NATBPMON`), additional statistics (hot fix level, read-only and swap status) are displayed when issuing the `STATUS` command in `NATBPMON`. Refer to *Statistical Information About the Buffer Pool* in the *Operations* documentation for details.

Profiler Utility

Summary of Executed Source Lines

The Natural Profiler utility now provides the option to generate a summary of source lines executed in a Natural object. The summary shows how many events occurred during execution of a source line and the CPU and elapsed time spent executing the line.

For more information, see *Line Summary* in the section *Using the Profiler Utility in Batch Mode*.

Transaction Response Time Evaluation

The Natural Profiler utility now provides the option to evaluate transactions and generate a transaction summary. The summary shows how many events occurred during execution of the transaction and the response time used by the transaction.

For more information, see *Transaction Summary* in the section *Using the Profiler Utility in Batch Mode*.

Natural Development Server

Natural Development Server is released with the same version number as Natural for Windows.

Natural RPC (Remote Procedure Call)

Natural RPC (Remote Procedure Call) is available as a separate subcomponent of Natural. It has its own version number. This measure takes into account that Natural RPC is a cross-platform component and makes it possible to provide new Natural RPC versions independent of new Natural versions for the various platforms supported.

With Natural Version 9.1.1, an enhanced Natural RPC Version 9.1.1 is delivered. This version contains error corrections. New functionality is not provided.

Natural Security

The following enhancements are provided with Natural Security Version 9.1.1:

- Administrator Services
- Unlocking Locked Users
- Password Phrases
- Password Rules
- Passing Natural User ID to Adabas
- Authentication Options
- Application Programming Interfaces (APIs)

Administrator Services

The menu structure of Administrator Services has been revised slightly. In particular, **User Preset Values** and **Library Preset Values** are now two separate menu items.

Unlocking Locked Users

User Preset Values provide a new option **Automatically unlock users after *nn* hours, *nn* minutes**. If you use the Lock User Option, you had to unlock every locked user manually. With this option, you can specify a time interval after which locked users are unlocked automatically: A locked user ID will then be unlocked *nn* hours and *nn* minutes after which the locking occurred.

Password Phrases

In addition to "regular" passwords of up to 8 characters, Natural Security now also supports the use of *password phrases*, that is, passwords which are longer than 8 characters. The use of password phrases is activated by the new option **Password phrases active** in the **User Preset Values** section of *Administrator Services*.

Several **Password Phrase Options** are available to control the use password phrases.

In conjunction with password phrases, the new logon-related user exit LOGONEX0 is used instead of LOGONEX1; see *Logon-Related User Exits*.

See also *Application Programming Interfaces (APIs)* below.

Password Rules

In the **Password Options** section of **User Preset Values**, the option **Minimum no. of non-alphabetical characters** has been replaced by the two new options **Minimum no. of numeric characters** and **Minimum no. of special characters**.

Passing Natural User ID to Adabas

A new option **Pass Natural User ID (*USER) to Adabas** is available in the **Library Preset Values** section of *Administrator Services*. It determines which user ID is passed to Adabas to be used as Adabas login ID: the value of the Natural system variable *USER or that of the Natural system variable *INIT-USER.

Authentication Options

User authentication via an LDAP server is now also possible with `AUTO=ON`: If technical user support is defined and the Natural session is started with the Natural profile parameter `AUTO=ON`, the user ID is LDAP-verified.

The following components of the LDAP security profile have been changed:

- **LDAP Options 1:** The field **Log level**, which could be set to **0** (logging not active) and **1** (logging active), now provides a value range of **0 to 6** for selective logging of various items.
- **LDAP Options 2:** The **Technical user support** fields **Credential** and **Key value** have been renamed to **Path to output file** and **Path to key file** respectively.
- **LDAP Options 3:** The field **Default separator** has been removed.

Application Programming Interfaces (APIs)

For the handling of password phrases, two new APIs are available:

- `NSC--PH` can be used to check password phrases.
- `NSC--PHS` can be used to check and change password phrases.

The existing API `NSC-US` has been enhanced: The parameter `PPARM4` can be used to set a password phrase in a user security profile (see example program `PGMUS001`).

To set the user ID and password phrase for an Natural RPC service request, you use the new API `USR9171` provided in the library `SYSEXT`.

Notice of Future Changes

Compiler Used to Build Natural

It is planned to change the compiler used to build Natural in the upcoming version of Natural for Windows. A switch to Microsoft Visual Studio 2017 as the build compiler is intended. It may be possible that this change influences the behavior of customer programs written in language C.

