

CAD/CAM System N-Ship+
Version 5.0

Administrator Guide

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ANNOTATION

This document is a concise guide for administrator to run primary installation of the N-Ship+ system. The N-Ship+ system is informationally compatible with the following systems: Ritm-Ship (AutoCAD), R-Ship+ (AutoCAD) and B-Ship+ (BricsCAD).

The document is designed for the specialists serving to provide users who work in nanoCAD and N-Ship+ for construction and technological preparation of shiphull manufacturing.

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1. TERMS AND AGREEMENTS

The manual applied the following agreements for fonts:

- names of parameters, folders, files are in *italic*;
- names of modules and components of the N-Ship+ system, menu items, button names, window names are in **bold**;
- names of layers and commands are in CAPITAL.

For conciseness everywhere in the document N-Ship+ system will be called N-Ship.

2. WORKPLACE PARAMETERS

Computer used for installation of N-Ship system should have any of the following operation systems (OS) – 64-bit: Windows 8.1, Windows 10, Windows 11. We recommend Windows 10 64-bit.

Before installation of N-Ship on any workplace one must check presence of installed graphical editor nanoCAD (version v24.1 or other version written in the shipment agreement).

Minimal hardware requirements depend from the nanoCAD version to which N-Ship is to be added. Recommended configuration: Intel Core i5, 2,1 GHz, operating memory 8 Gb, Winchester capacity 1 TB, monitor 21'.

Free disk memory necessary for N-Ship modules is not less than 1 Gb, for stable work of nanoCAD 2 Gb is to be preferred.

3. CONDITIONS OF N-SHIP INSTALLATION

3.1 Access rights and user account control

While N-Ship installation process **administrator rights** and **switching off of UACs** in Windows required (vendors recommend).

After installation user accounts control can be returned. But this should be done with carefullness because in some cases specific software components can stop working.

3.2 Name of the installer to run

Usual installer file is named *nship-v<V>-64_setup_<N>_<lang>.exe*, where <V> is a Platform nanoCAD version and subversion number (v24.1), <N> is a build number, <lang> is interface language. E.g. *nship-v24.1-64_setup_1_Eng.exe*.

Installer size can be between 70 Mb & 400 Mb. File can be delivered on magnet device (DVD, flash disk) or transferred via Internet (downloading address and password are given by developer).

Agreement can include shipment of several installers reflecting features of customer workplaces (nanoCAD versions etc.).

3.3 Discrepancies between OS and N-Ship bit count

Installer checks OS bit count and after finding discrepancy it stops work with message:

Attention! It is impossible to install 64-bit version of N-Ship system in 32-bit Windows.

3.4 Missing required version of Platform nanoCAD

Installer is being built for Platform nanoCAD of a specific version number (v24 and more) with localization for Russian and English languages. Control is done by verification of correspondent folders of OS registry.

N-Ship system can be installed on the computer, on which no nanoCAD (either Russian or English) is present, but in this case no nanoCAD shortcut with required parameters will be created. After adding nanoCAD to the workplace user should reinstall N-Ship system after removing it with the help of Windows Control Panel.

If both Russian and English versions of nanoCAD are found on the computer then two shortcuts for launching nanoCAD Rus/Eng with settings for N-Ship will be created. User may work with any of those shortcuts.

3.5 Placement of N-Ship files

Program files of N-Ship system and sample files are placed compactly, in one folder, which name is requested while installation. **It is recommended to install the sytem into the folder *D:\NSHIP*.**

During maintenance process project work folders (with parts, nesting maps, databases etc.) are created in other places (placement is requested while registration of a new project_portion in module **Bdata**).

3.6 Marking of N-Ship system in Windows registry

N-Ship installer creates a very important folder *HKEY_LOCAL_MACHINE \ SOFTWARE \ NSHIP \ N-Ship+* in Windows registry in the 32-bit Windows registry thread. Moreover, a similar folder *HKEY_LOCAL_MACHINE \ SOFTWARE \ Wow6432Node \ BSHIP \ N-Ship+* is created too (it is a thread for 32-bit applications run in 64-bit OS).

Bot mentioned folders contain four obligatory parameters: *pathnano* (full path to root folder of N-Ship), *projectsnano* (full path to the folder of general project design data), *plants_settingsnano* (full path to the folder of shipyards technological data), *scrapsnano* (full folder path for DB tables of usable scraps) (pic. 1).

Имя	Тип	Значение
(По умолчанию)	REG_SZ	(значение не присвоено)
pathnano	REG_SZ	D:\NSHIP
plants_settingsnano	REG_SZ	D:\NSHIP\Plants_settings
projectsnano	REG_SZ	D:\NSHIP\Projects
scrapsnano	REG_SZ	D:\NSHIP

Pic. 1. Contents of N-Ship+ folder in Windows registry

4. N-SHIP INSTALLATION PROCEDURE

4.1 Launching installer

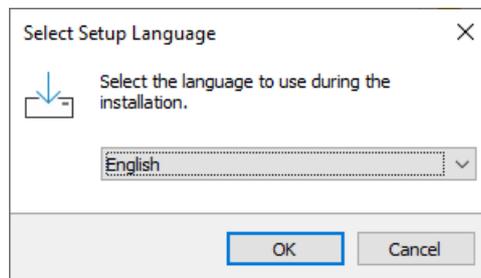
Installer (e.g. *nship-v25-64_setup_5.exe*) is an executable EXE file and is run as usual (by press or double-click on file shortcut). The process uses installation Wizard.

As a rule, N-Ship installation to be run by system administrator. **Adminitrator rights and switching off Windows user account control are required.**

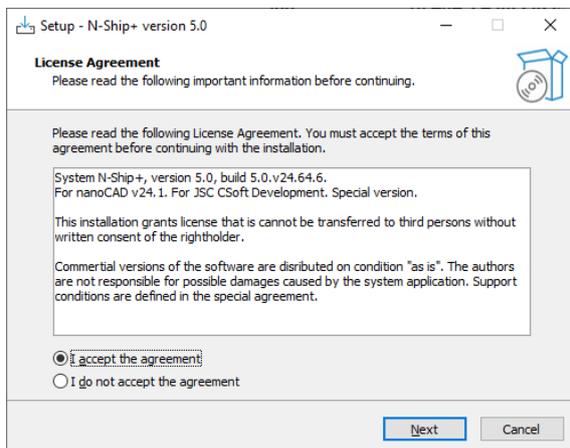
Attention! Before installation check **validity of system date**. To avoid problems with protection key work please do not change computer system date.

4.2 Installation pages

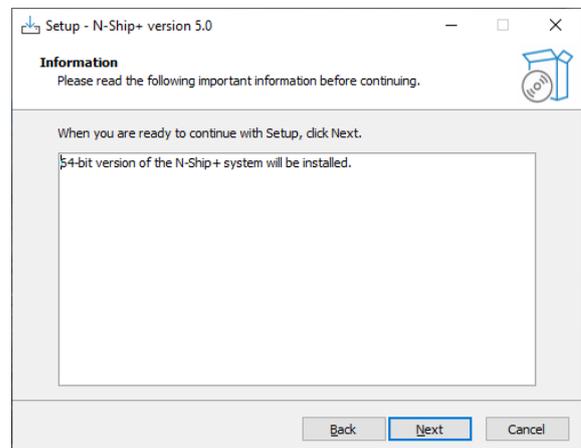
Installation wizard is multipaged (pic. 2–10).



Pic. 2. Page of setup language selection

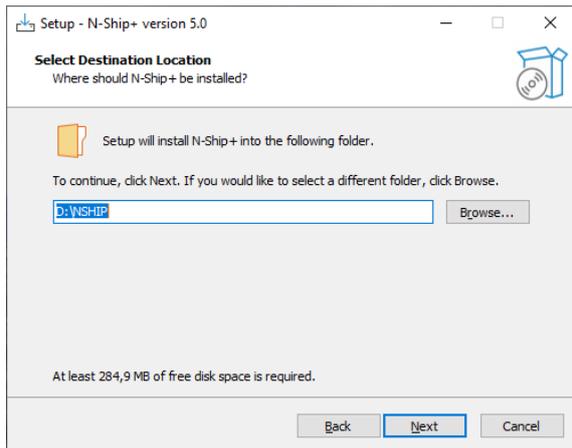


Pic. 3. Page with license agreement

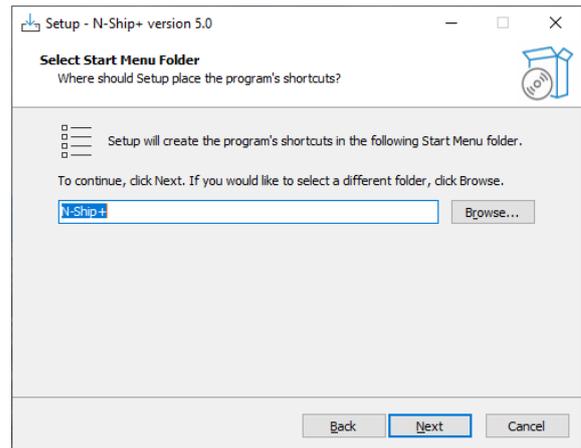


Pic. 4. Page of setup start

Installation run is possible only after **accepting license agreement conditions**.



Pic. 5. Selection of destination folder

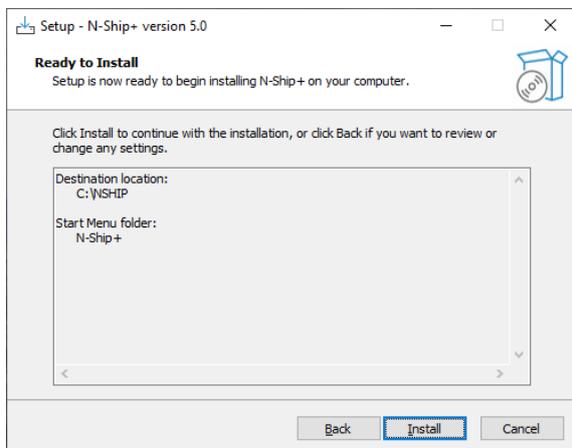
Pic. 6. Folder name in the **Start** menu

It is recommended to use в качестве *D:\NSHIP* as an installation folder for N-Ship software (pic. 5) (suggested as default).

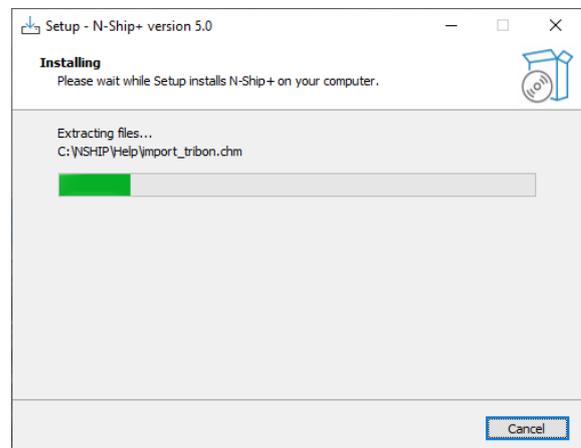
Note. Destination folder must be **root** and its name must not used backspaces (alpha-numeric only).

It is better to accept suggested default folder names.

During setup the installer retrieves packed files and copies them to user computer.

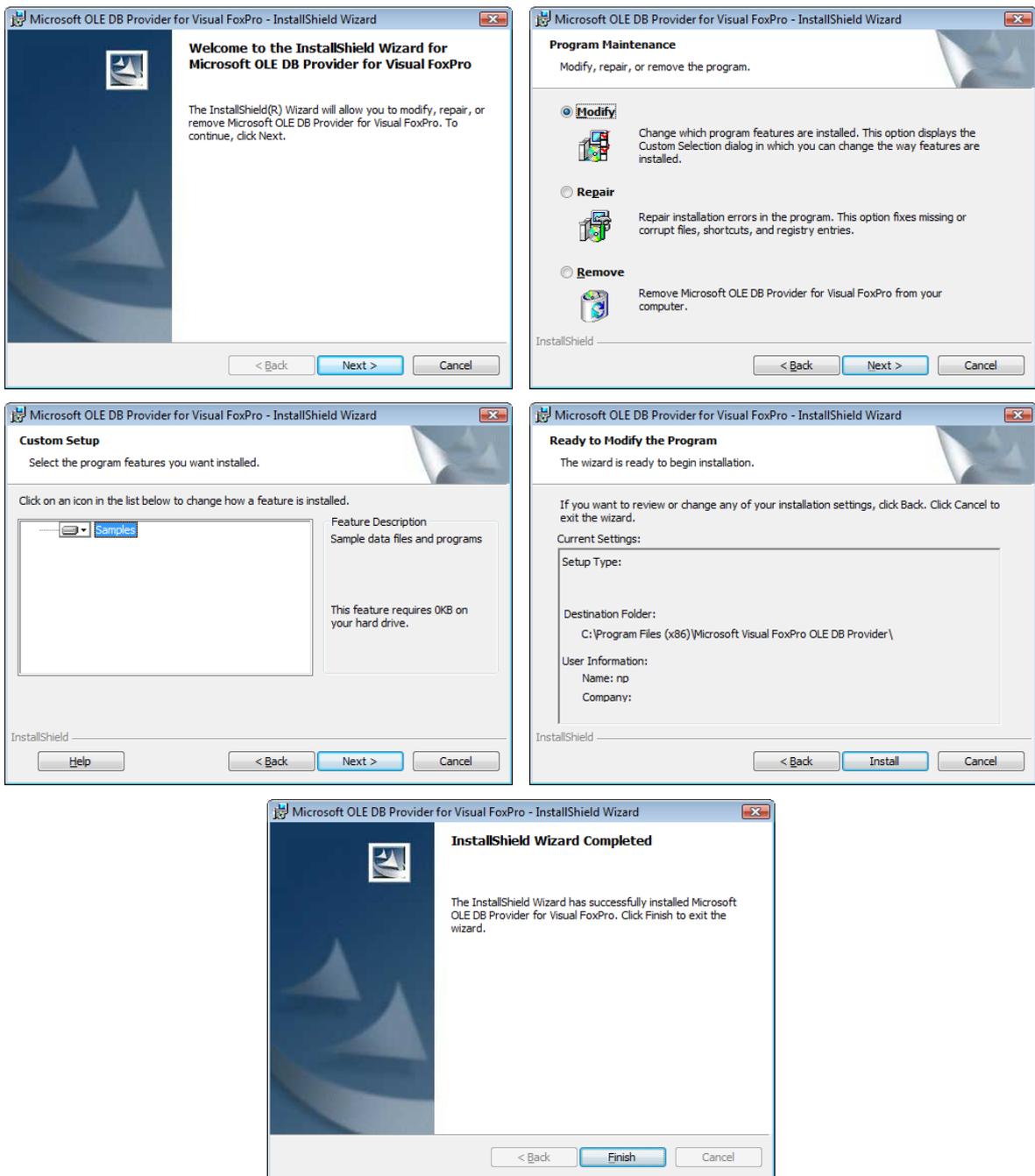


Pic. 7. Informations on settings



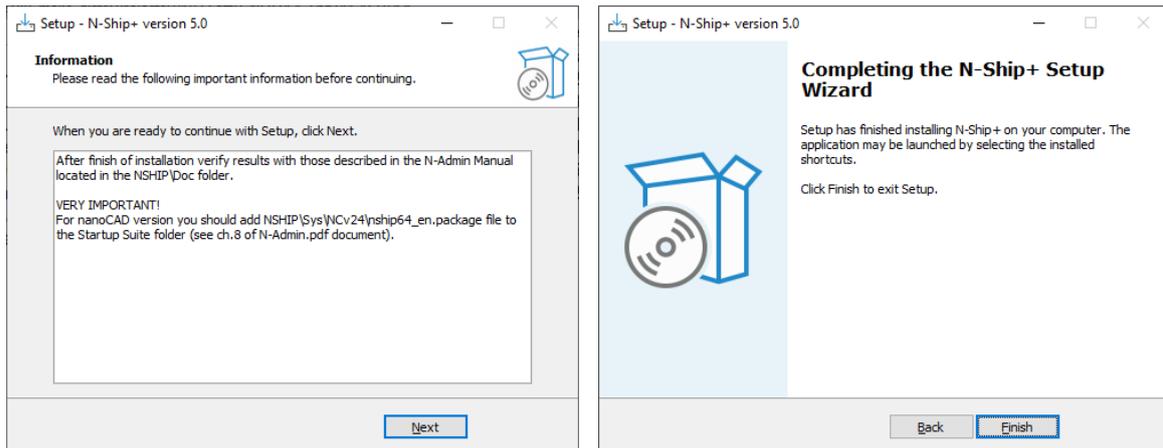
Pic. 8. Page for viewing unpacking process

Next server software elements are registered/unregistered.



Pic. 9. Pages of DB provider setup

After registration of server elements protection driver is installed. It is for verification licenses of modules. If N-Ship is delivered with program (soft) protection keys then there will be some windows (pages) for a specific driver.



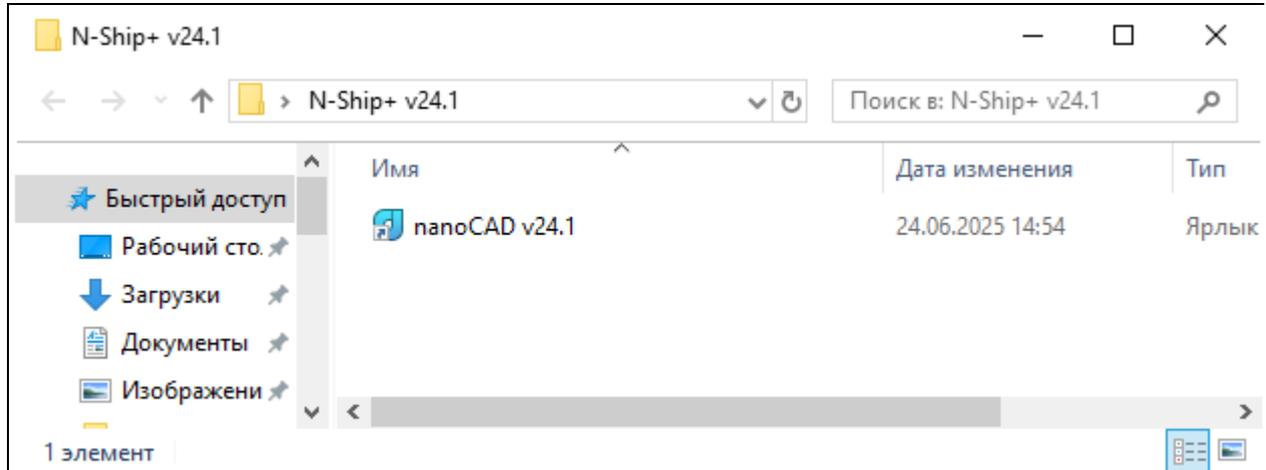
Pic. 10. Completing pages

At the end there is a message of successful installation.

5. INSTALLATION RESULTS

5.1 N-Ship folder on desktop

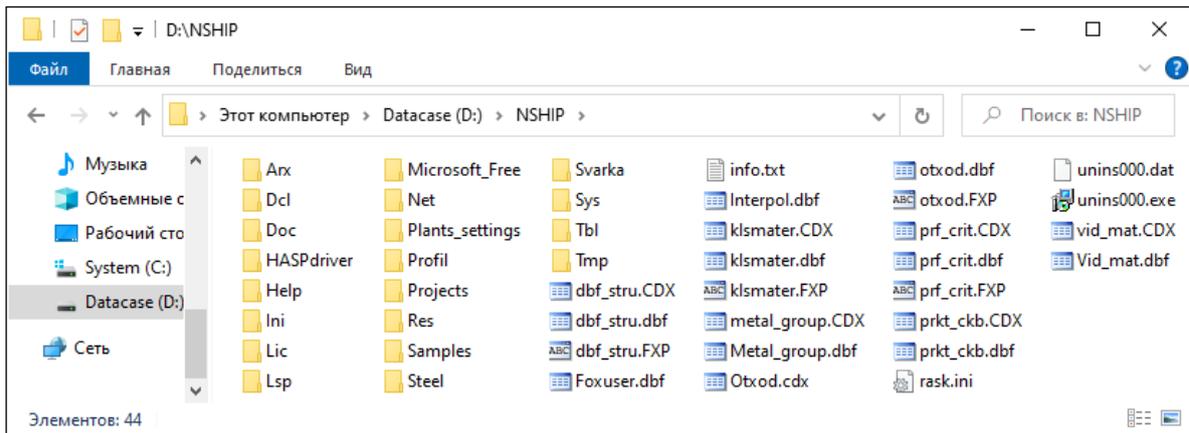
After setup there appears Windows desktop folder **N-Ship+ v24.1** (if 24.1 was installed), with shortcut **nanoCAD v24.1** (pic. 11).



Pic. 11. N-Ship+ folder on desktop

5.2 N-Ship installation directory

N-Ship folder with installed software components looks like pic. 12.



Pic. 12. Folder with N-Ship files on user computer

6. LICENSING

6.1 Protection key

Usual configuration of N-Ship uses USB keys (pic. 13).



Pic. 13. USB protection keys

Another configuration uses program keys connecting software to a single computer. They can be transferrable (with moving option), as well as untransferrable (cannot be moved).

6.2 Features of local and network licences

Local license is controlled either by local USB key (see pic. 13) or by local program key.

Network license (license server) is setup in the same subnetwork as client computers. It can be a specially selected computer (including server of local network) or any client computer. In the case of network license client computers work with free licenses that are seen to network license manager. Network licenses can be distributed between several servers. In case of any fails network license is released only in 5 minutes.

6.3 Transfer of protection key to another computer

USB keys can be moved to any other computers with no restrictions. If the program finds no license then it will stop working. After returning the key program will restore functioning.

Transferrable license keys are moved to another computer by a special utility provided by the vendor. In this case license on the source computer is deactivated and on the target computer it is created.

7. CHECKING LICENSES

Rtrieving N-Ship license status is done inside nanoCAD with command NSHIPLIC, entered in command line on keyboard or with menu item **BDATA>Licenses state**. Программа выведет в командную строку уникальный номер ключа защиты и список обозначений модулей с действующими лицензиями, например:

```
N-Ship+ 109529854
Bdata perpetual
Model prpetual
Structure HOURS 720 (DAYS 30)
Part HOURS 2152 (DAYS 89)
Nesting perpetual
```

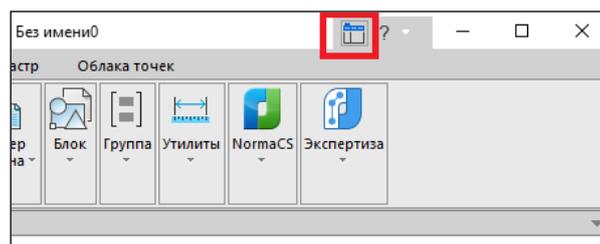
After HOURS there is number of hours left up to license finish term, and after DAYS there is a corresponding number of full days). Unlimited license is marked as “perpetual”.

If the list is empty then either licenses are not generated or expired, or no license key is attached.

8. TESTING AND RUNNING SYSTEM

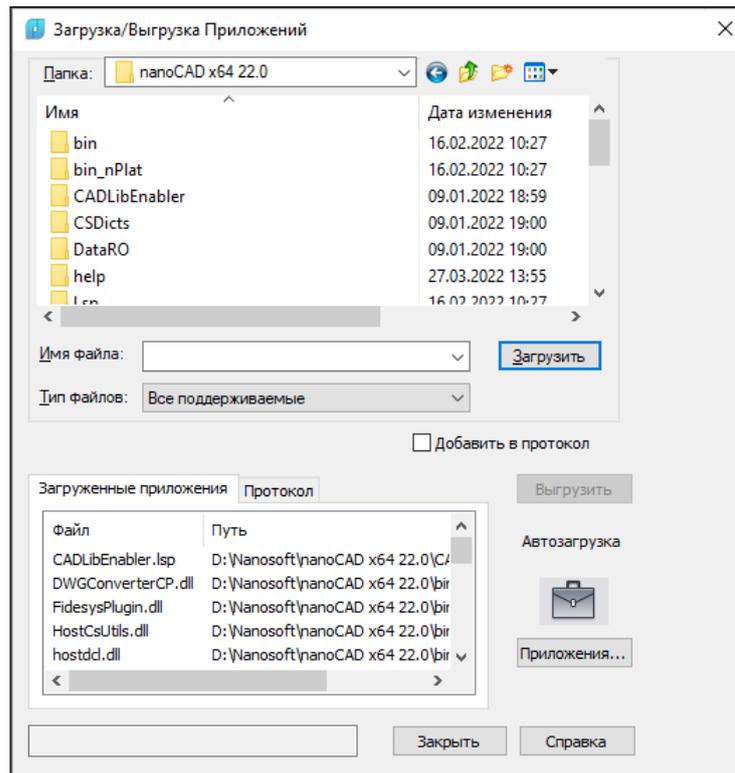
8.1 Loading popup menus

System N-Ship requires menu line that is hidden with active ribbon menu. To hide ribbon and to show menu line it is sufficient to click button of switching between ribbon interface and classic interface. It resides in the right corner of nanoCAD window (pic. 14).



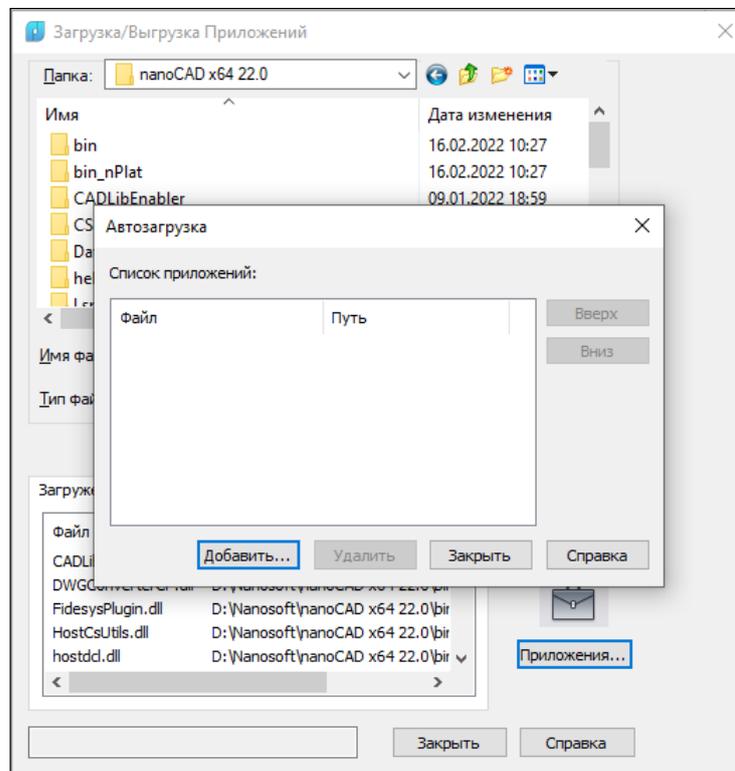
Pic. 14. Button for switching between ribbon and pop-up menus

Before testing user should launch nanoCAD and manually add package file of basic N-Ship components (includes pop-up menus) to autoload folder. This can be done with command APPLOAD from command line or with menu item **Tools > Applications > Load application**). The command opens dialog box **Load/Unload Applications** (pic. 15).



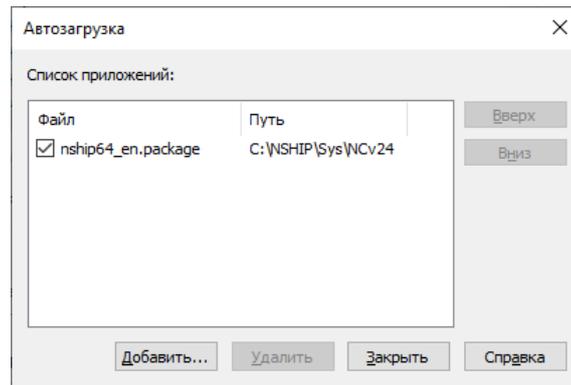
Pic. 15. Dialog box **Load/Unload Applications**

Clicking button **Applications** leads to the window окно **Autoload** (pic. 16).



Pic. 16. Window **Autoload**

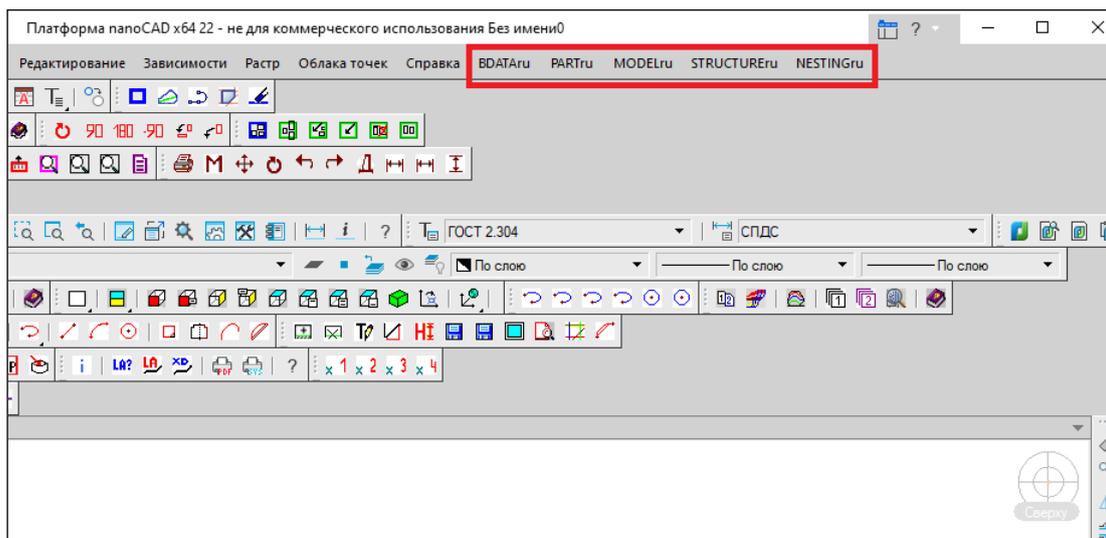
Next using button **Add** one must select file *nship64_en.package*, from the folder *NSHIP\Sys\WCv24* (if Platform nanoCAD v24), and click checkbox in the left side (pic. 17).



Pic. 17. Adding nship64_en.package

Press button **Close**.

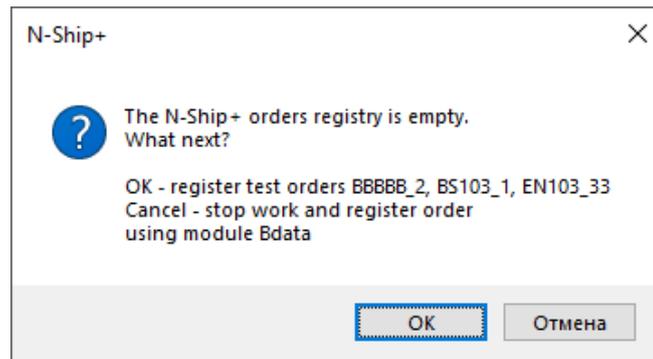
At the next nanoCAD start the popup menus will appear in the menu line. Each menu name contains two symbol suffix of interface localization: ru or en (pic. 18):



Pic. 18. Loaded menus of N-Ship system

8.2 Testing

Testing N-Ship is done by users themselves. It can be run on their data or on provided by the vendor test orders BS103_1, BBBB_2, EN103_33 in the folder *NSHIP\Samples* and on project 71144 in the folder *NSHIP\Projects*. At the first start N-Ship+ offers to register three test orders (pic. 19).



Pic. 19. Request for automatic registration of test orders

It is recommended to accept the suggestion, and then use these orders for system aprobation.

8.3 Exploitation and support

System support in its exploitation is run during the term written in the agreement for N-Ship delivery (one year usually).

8.4 Reinstallation

If N-Ship is to be installed once more (e.g., at the case of big update), it is necessary:

- make a copy of installed N-Ship system (to save current settings and created files);
- deinstall system with Windows Control Panel;
- run reinstallation of N-Ship system using provided installer;
- connect to vendor aiming to get sufficient list of settings and databases that should be

replaced with the old ones.