Scientific and Production Enterprise
“Vibrobit”
Limited Liability Company

Vibrobit Web.Net.Monitoring

System Programmer Manual

ВШПА.421412.990 32

Pages 52

Rostov-on-Don
2021

“Vibrobit Web.Net.Monitoring” System Programmer Manual
Author-developer V.E. Ivashchenko etc. — RnD Vibrobit — 52 p.

“Vibrobit Web.Net.Monitoring” System Programmer Manual describes structure and content, installation order and system configuration methods.

Intended for system programmer.

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Revision No. 1 dated 05/08/2021

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Notational conventions

To ease text comprehension, the Manual uses the following special symbols:

- texts and program messages are emphasized with `monospace font`;
- paths to directories and files are emphasized with bold font and square brackets: **[D:\distr\Browser\ChromeStandaloneSetup64.exe]**;
- paths to directories and files on installation CD disk or installation directory, besides the above mentioned, are emphasized with a word InstallCD: **[InstallCD:\distr\Browser\ChromeStandaloneSetup64.exe]**;
- Operation sequence is emphasized with italic font, arrows and square brackets: *[Control panel → System and Security → Windows Firewall]*

Some important issues are separated into special boxes. Please read them carefully – this will help you to avoid many difficulties:

> **ⓘ Important information**
>
> Arranged here are information, advices, recommendations to pay special attention to.

Abbreviations

APCS – Automatic Process Control System
OW – operator workstation
CVMS – Condition and Vibration Monitoring Systems
DBMS – Data Base Management System
ISVM – Integrated System of Vibration Monitoring
OPC – OLE for Process Control
OS – operating system
SW – software
WWW – world-wide web

1 “Vibrobit Web.Net.Monitoring” software description and operation

1.1 General information

“Vibrobit Web.Net.Monitoring” is an high-level software built using WWW-technologies stack and acting as Condition and Vibration Monitoring System (further referred as CVMS).

“Vibrobit Web.Net.Monitoring” software has multilevel, distributed client-server architecture, making “Vibrobit Web.Net.Monitoring” equally suitable for small projects that using only one server, as well as for large ones, where tasks distributed among several servers.

“Vibrobit Web.Net.Monitoring” software provides access to status of any equipment within company for users across Internet /Intranet network and particularly do following:

- reads various data from measurement equipment in continuous mode;
- processes obtained raw data;
- stores processed data within database with minimal interval 0.5 seconds;
- displays parameters from processed data using compliant web-browser (Chrome, Internet Explorer, Firefox, Opera, Safari) on workstations connected immediately to CVMS as well as on remote workstations connected to CVMS through Internet/Intranet networks;
- allows bi-directional data exchange with other CVMS and APCS systems via standard communication protocols (OPC, Modbus etc);
- predicts when parameter value reach specified level;
- watches for various equipment events and conditions, parameter status changes etc and stores them for further analysis;
- automatically detects possibly faults that can occur over time (option);
- helps to carry out works of rotor balancing (option);

“Vibrobit Web.Net.Monitoring” software can be used to process following values:

- bearing supports vibration;
- shaft vibration displacement;
- shaft speed;
- shaft axial offset;
- relative rotor expansion;
- cylinder absolute expansion;
- shaft deformation;
- linear displacement of mechanisms;
- cylinder “seats” slope;
- various operational parameters (temperature, pressure, power, current and voltage, tank filling levels and other process parameters).

“Vibrobit Web.Net.Monitoring” software can operate with equipment “Vibrobit”, “Vector-M” and any other CVMS and APCS, that supports standard communication protocols such as OPC, Modbus, DCON etc.

1.2 System structure

“Vibrobit Web.Net.Monitoring” system structure is multivariant, flexibly changed and is determined by customer requirements in each specific system.

System can operate both with one control object and be a part of Integrated System of Vibration Monitoring (ISVM).

System typical configuration is shown on Figure 1.

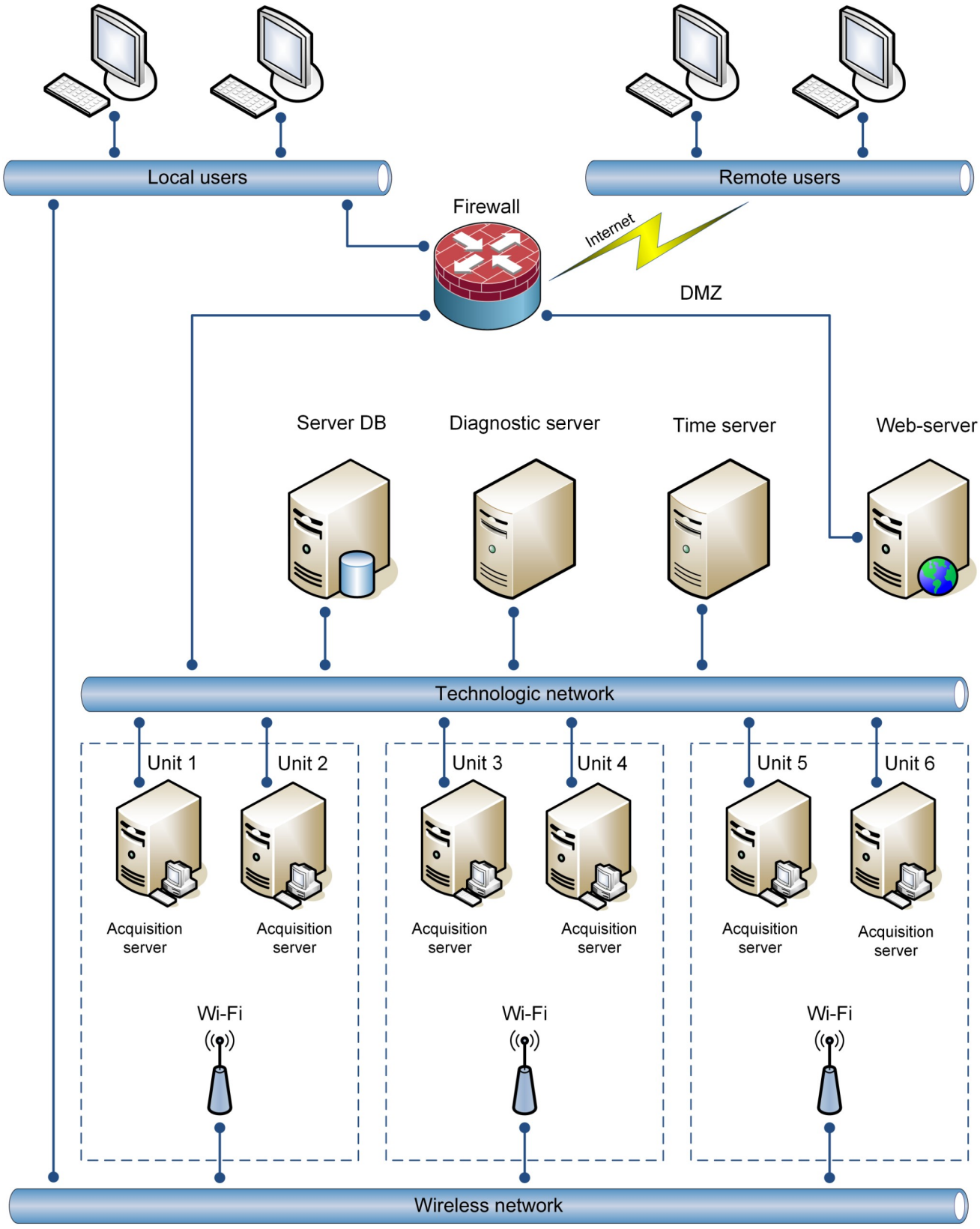

Figure 1 – “Vibrobit Web.Net.Monitoring” system block schematic diagram

1.3 System components

1.3.1 Hardware components

Hardware component is one industrial server consisting of the following parts:

– data acquisition and analysis server;
– database server;
– web-server.

1.3.1.1 Data acquisition and analysis server

Data acquisition and analysis server is an embedded or industrial computer. Installed into cabinet with instrumentation “Vibrobit 300” or on computer with another CVMS. Connected to instrumentation “Vibrobit 300” via RS485 interface. Data from another sources can be acquired using OPC-protocol.

1.3.1.2 Database server

SQL Server DBMS is arranged on the server.

Database server can be arranged on data acquisition server or allocated to separate server.

1.3.1.3 Web-server

Web-server can be arranged on data acquisition server or arranged as a separate server, specialized for web-server. If user operation via Internet network is provided, then web-server should be arranged in LAN (Local area network) protected section. LAN is protected by firewall.

1.3.2 Software components

Software component consists of the following parts:

– WNMServer service;
– WNM Database;
– data visualization web-application WNM Website;
– data base configuration editing utility DatabaseEditor;
– data acquisition and analysis service configuration editing utility Server.Configurator;
– data acquisition and analysis service work-in-progress viewing utility Server.Monitor.

1.3.2.1 WNMServer service

WNMServer service functions depend on set of configured roles. Roles are configured depending on technical specification requirements and “Web.Net.Monitoring” system topology. There is a prescribed list of role types, which combined and configured instances perform a specified task. WNMServer service is installed on data acquisition and analysis server.

WNMServer main functions:

- reading main measurement results from instrumentation “Vibrobit” control modules;
- reading data from CVMS systems and APCS unit;
- keeping measurement results archive;
- keeping event log;
- interaction with APCS (sending/receiving measurement results);
- interaction with WNMServer service other instances;
- interaction with data visualization web-application;
- executing different diagnostic algorithms.

The service is installed on data acquisition server in the path **[D:\Services\WNMServer\]**.

WNMServer service main role types are given in table 1

Table 1. WNMServer service main role types

Description	Main functions
MSSQL parameters provider	– access to parameter acquisition configuration of one or several monitoring objects;
Data acquisition process	– measurement results acquisition and storing; – events recording;
SQLEventLogService	– keeping event log;
SQLTagsResult	– keeping measurement results archive;
SQLTagsResultAnalitics	– preparing data for measurement results analysis;
Vibration Trends Detector	– detecting short-term and long-term vibration trends;
ModbusTCP RealTime Data	– sending current measurement results to APCS; – receiving current measurement results to APCS.

1.3.2.2 WNM Database

Created for each monitoring object is separate data base storing data acquisition configuration, measurement results archive and event log. It is possible to join several monitoring objects into one logic group and serve it by one data base.

Data bases are created on data base server.

1.3.2.3 Data visualization web-application WNM Website.

Web-application main functions:

- information visualization on work stations of serviced unit and work stations of remote users connected to Internet network using web-browser;
- plotting parameter trends;
- plotting orbits;
- indicating measurement channels signals;
- indicating measurement channels signals spectra;
- Nyquist plot plotting;
- viewing event logs.

Web-application is arranged in **[D:\Websites\]**.

1.3.2.4 Data base configuration editing utility DatabaseEditor

Data base configuration editing utility DatabaseEditor enables editing the following information set, necessary to arrange data acquisition:

- connection types and parameters;
- measurement modules types and instances;
- acquisition parameters;
- recorded events;
- parameter hierarchy setup.

The utility is installed on data acquisition server in the path **[D:\Services\ DatabaseEditor\]**

1.3.2.5 Data acquisition and analysis service configuration editing utility Server.Configurator.

Data acquisition and analysis service configuration editing utility executes the following functions:

- viewing service current configuration;
- adding/editing role instances;
- editing role instances setup.

The utility is installed on data acquisition server in the path **[D:\Services**

Server.Configurator\WNMServer.Configurator.exe]

1.3.2.6 Data acquisition and analysis service work-in-progress viewing utility Server.Monitor.

Data acquisition and analysis service work-in-progress viewing utility provides the following information on service operation:

- list of active roles;
- service querying statistics;
- measurement results acquisition status;
- data acquirer operation statistics;
- signal spectra reading status;
- and other information on active roles operation.

The utility is installed on data acquisition server in the path **[D:\Services\Server.Monitor\ WNMServer.Monitor.exe]**

2 Software and hardware requirements

2.1 Hardware requirements

2.1.1 Hardware server part requirements

“Vibrobit Web.Net.Monitoring” SW specified minimum and recommended requirements to hardware server part are given in Table 2.

Table 2. Hardware server part requirements

Requirements	Processor	RAM	HDD	Additional parameters
Minimum	32-bit (x86)	2 Gb	40 Gb	USB, RS-485, Ethernet 100 Mb/s
	64-bit (x64) dual core processor with clock frequency 1.2 GHz	4 Gb		
Recommended	64-bit (x64) quad-core processor with clock frequency 3 GHz	8 Gb	1 Tb	USB, RS-485, RAID-controller, Ethernet 1 Gb/s

2.1.2 Hardware client part requirements

“Vibrobit Web.Net.Monitoring” SW specified minimum and recommended requirements to hardware client part are given in Table 3.

Table 3. Hardware client part requirements

Requirements	Processor	RAM	HDD	Additional parameters
Minimum	32-bit (x86)	1 Gb	20 Gb	Ethernet 100 Mb/s
	64-bit (x64) dual core processor with clock frequency 1.2 GHz	2 Gb		
Recommended	64-bit (x64) dual core processor with clock frequency 2 GHz	4 Gb	120 Gb	printer, Ethernet 1 Gb/s

2.2 Software requirements

2.2.1 Software server part requirements

“Vibrobit Web.Net.Monitoring” SW specified minimum and recommended requirements to software server part are given in Table 4.

Table 4. Software server part requirements

Operating system	Additional SW
Windows XP Professional	Net. Framework 3.5, Net. Framework 4
Windows 7 Professional (32, 64-bit) Windows Server 2012 R2 Standard Edition	Net. Framework 3.5, Net. Framework 4.51

2.2.2 Software client part requirements

Computer with web-browser is necessary to connect to system.

Operating system type is of no importance.

Browser main requirements:

– graphics mode;

– JavaScript support.

3 Installation

3.1 Introduction

“Vibrobit Web.Net.Monitoring” monitoring and diagnostics system can be installed on one or several servers of customer LAN depending on specific configuration, required by customer, including installation on embedded computer. System important feature is its easy scalability. System architecture allows for installing any of its components on separate computer net node, therewith the components will interact between themselves via LAN.

“Vibrobit Web.Net.Monitoring” monitoring and diagnostics system should be installed according to the procedure specified in this Manual. Certain items of this Manual may differ depending on specific system configuration.

> **ⓘ Important information**
>
> For installation it is recommended to use system installation and setup log book ВШПА.421412.990._ ФО.

3.2 System installation preparation

One of OS Windows recommended versions should be installed on a computer to operate all system components (ref. item 2).

System operation requires the following components to be available:

– Microsoft .Net Framework 4;

– Guardant drivers;

If one or several components from the list above are absent, install them.

> **ⓘ Important information**
>
> 1. Components should be install in the order they are listed.
> 2. Number of installed components may vary depending on specific project and selected installation platform.
> 3. All necessary installation programs are available on disk, included into the system shipment.

3.2.1 Microsoft .Net Framework 3.5 installation

To install .Net Framework 3.5 on Windows Server open Server Manager and execute menu item “Add roles and features”. Then select feature .Net Framework 3.5.

3.2.2 Guardant drivers installation

Guardant drivers are necessary for operation of protected programs and all utilities accessing an electronic key.

To install Guardant drivers start the installation program **[InstallCD:\distr\Guardant\ GrdDriversRU-x64.msi]**, and follow installation wizard instructions.

ⓘ Important information

1. During drivers installation all applications should be closed to prevent file sharing error.
2. All USB-keys should be disconnected from computer.

For Guardant drivers installation details refer to Guardant electronic keys Maintenance Manual **[InstallCD:\distr\Guardant\instruction.pdf]**.

3.3 MS SQL Server DBMS installation

For MS SQL Server installation depending on platform start files **[InstallCD:\distr\SQLServer\setup.exe]**;

Follow installation wizard instructions during installation process and tips provided below. The most important installation stages are shown on Figures 2 – 8.

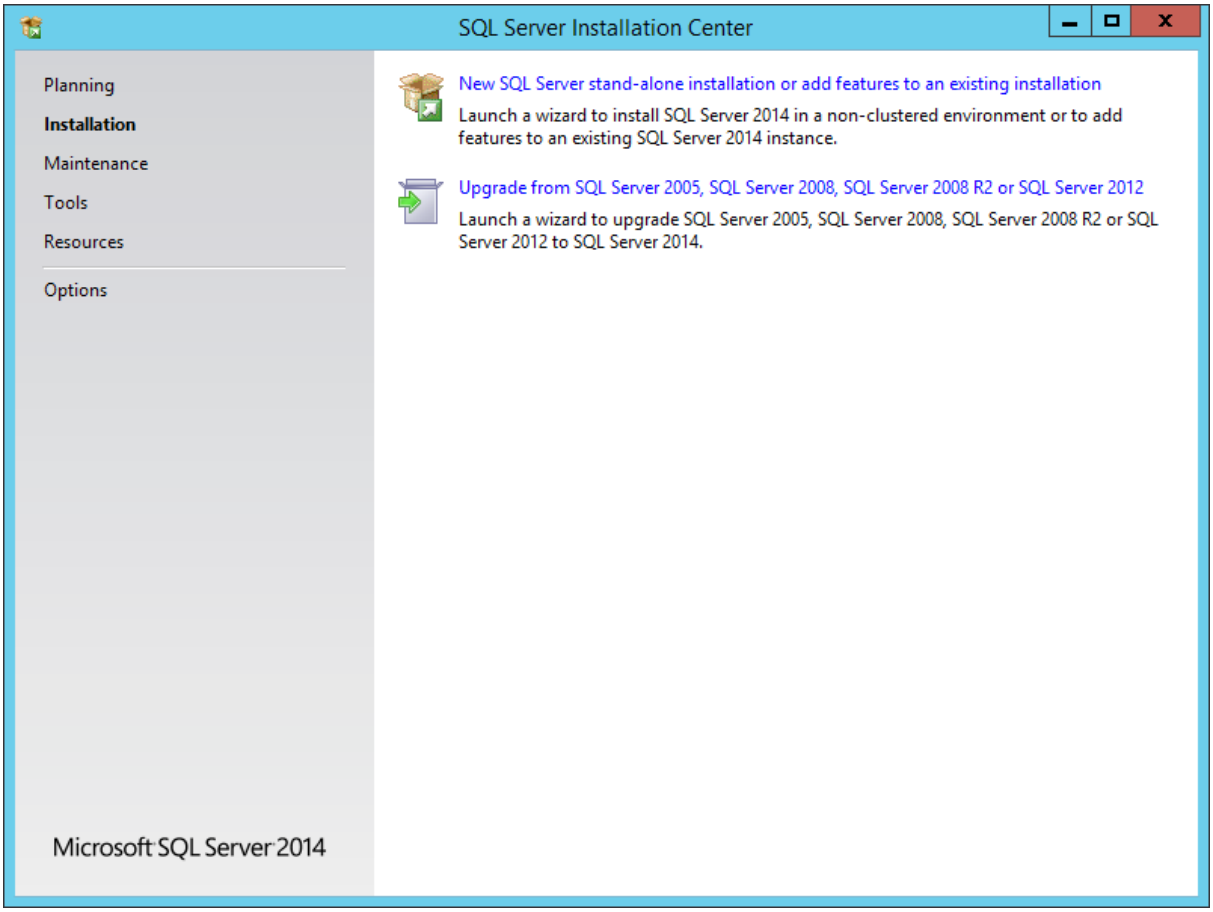

Figure 2 – SQL Server installation type selection

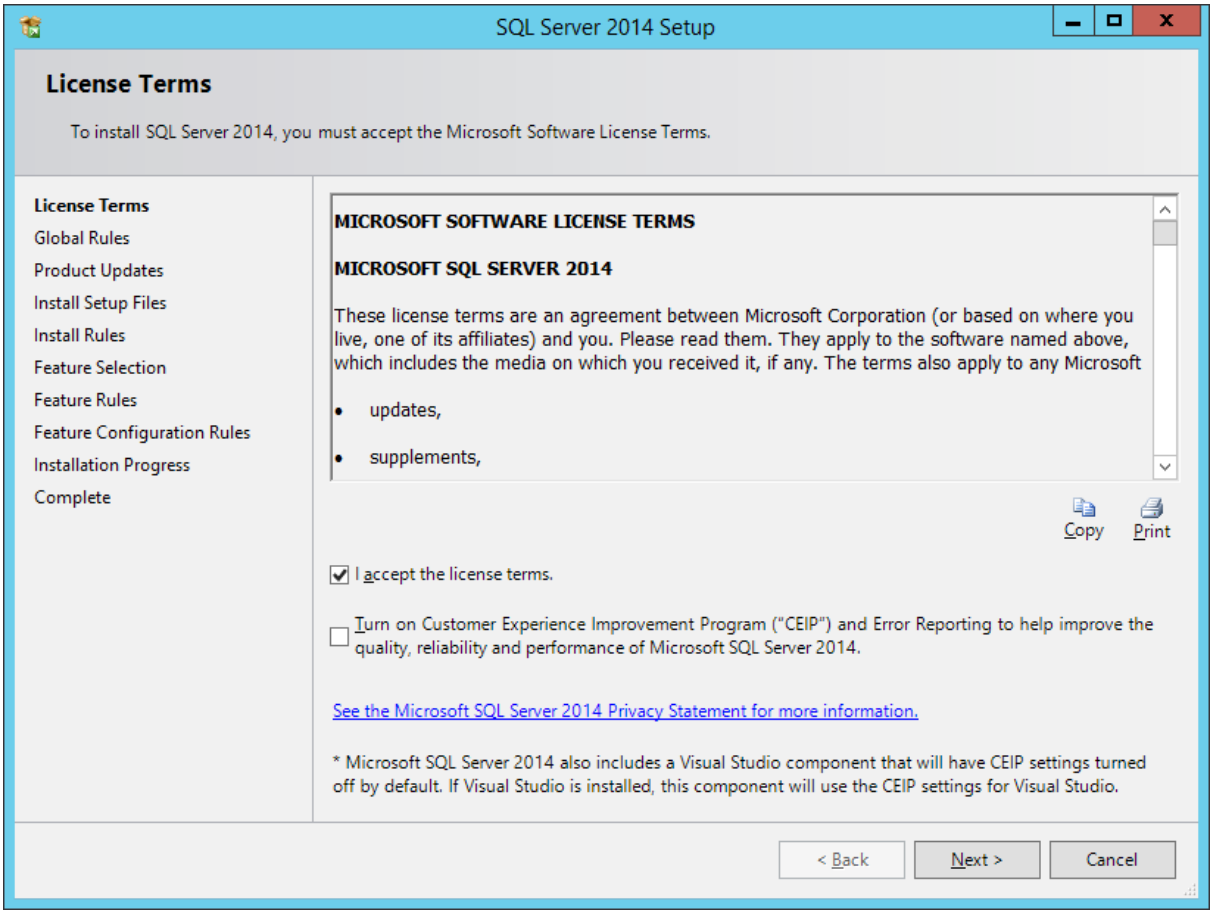

Figure 3 – Accepting license agreement

Select function set to install SQL Server (ref. Fig. 4).

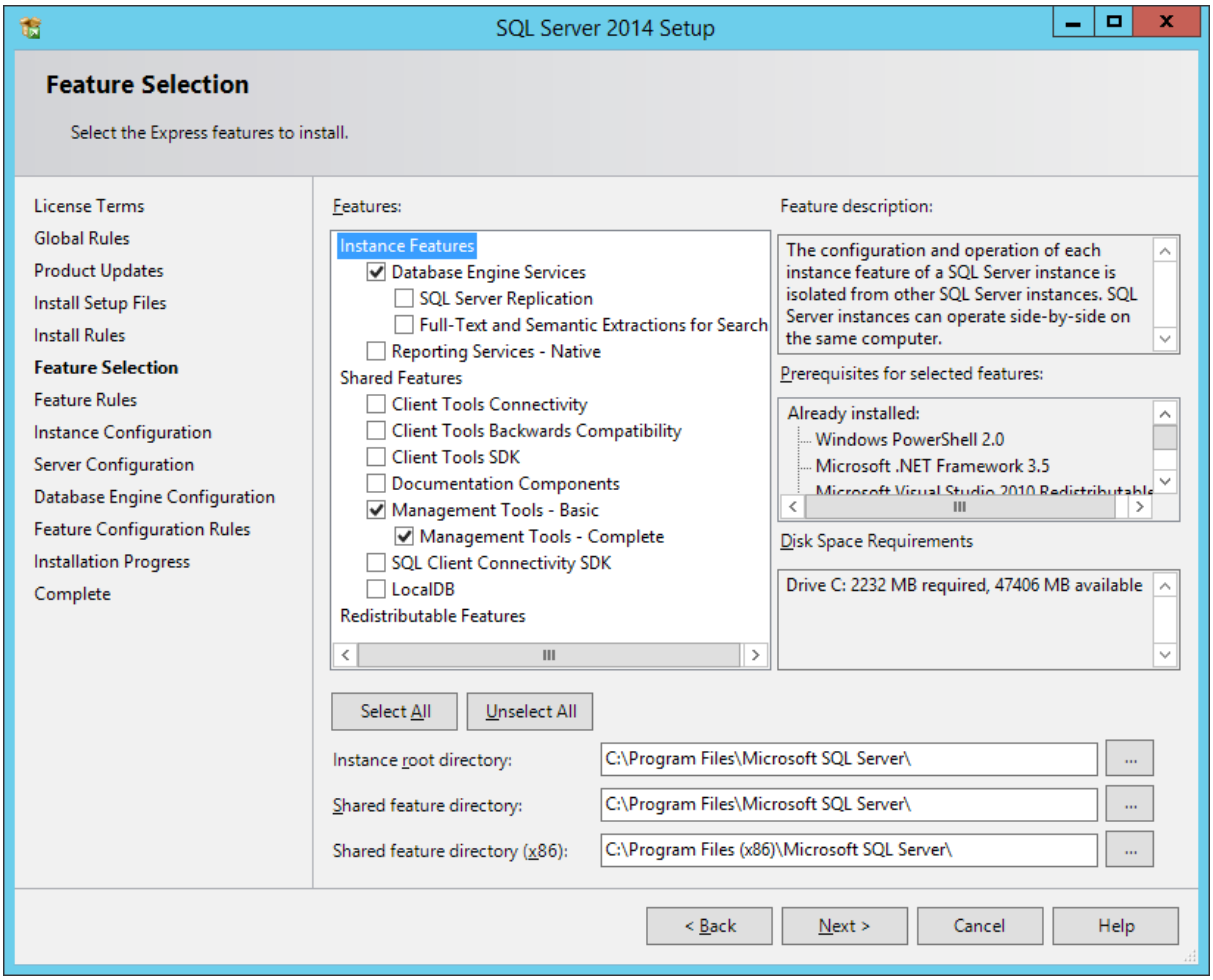

Figure 4 – SQL Server functions selection

In SQL Server instance configuration item, select “Default instance” according to Fig 5.

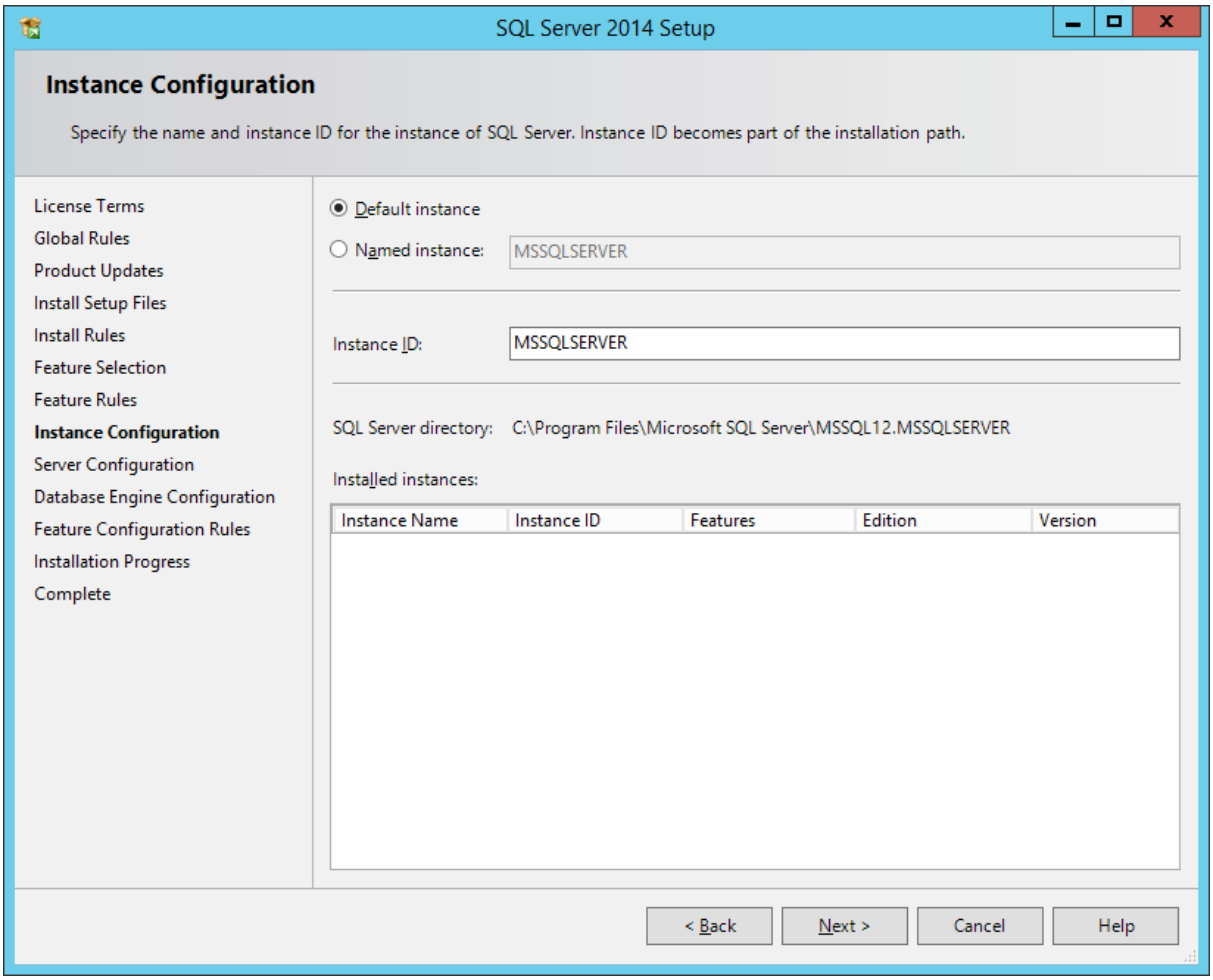

Figure 5 – SQL Server instance configuration

Select “Startup Type” – “Automatic” for all services according to Fig. 6.

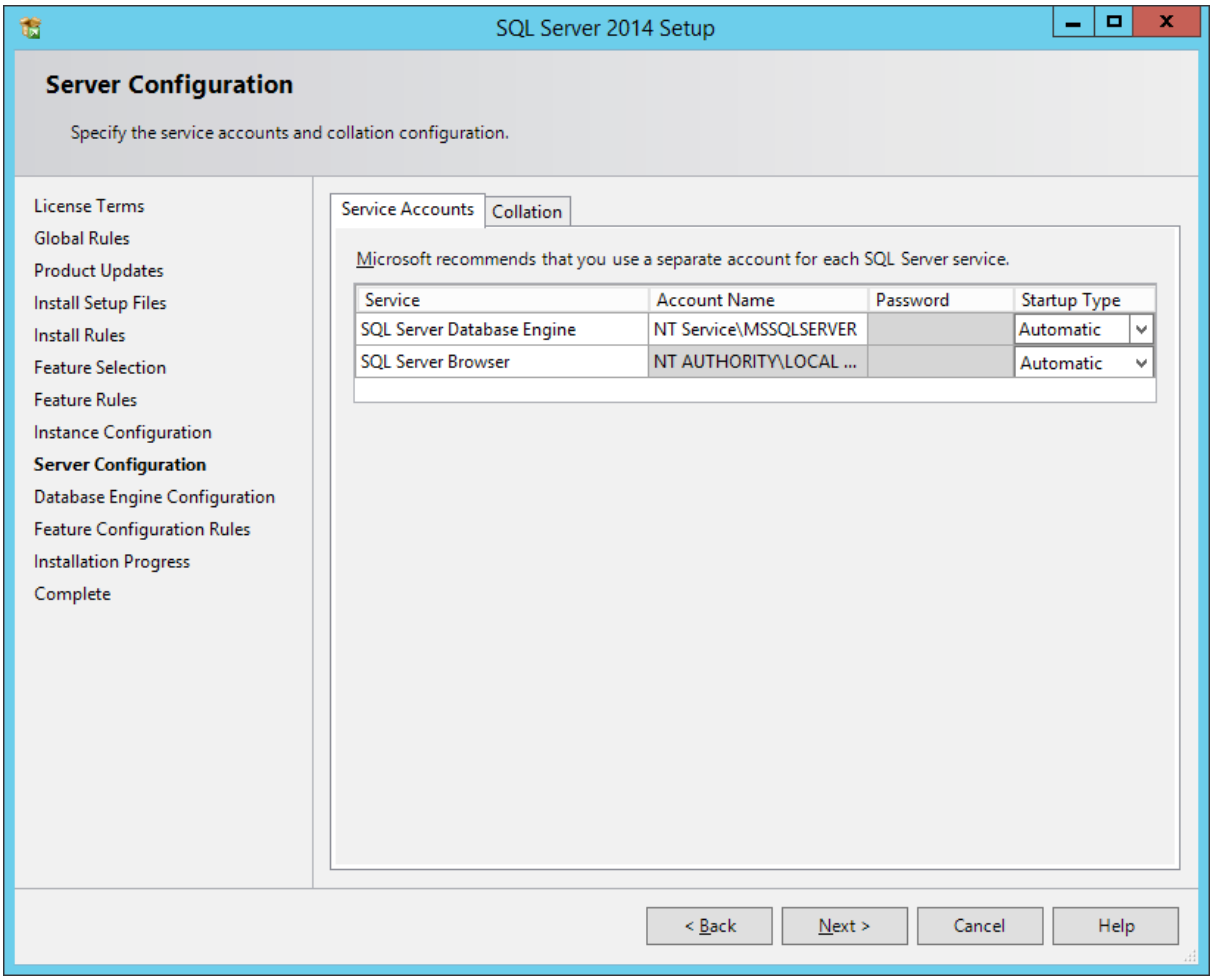

Figure 6 – SQL Server installation center Instance setup

Select mixed authentication mode and specify password according to WNM system installation log book.

Add current user as SQL Server administrator according to Fig. 7.

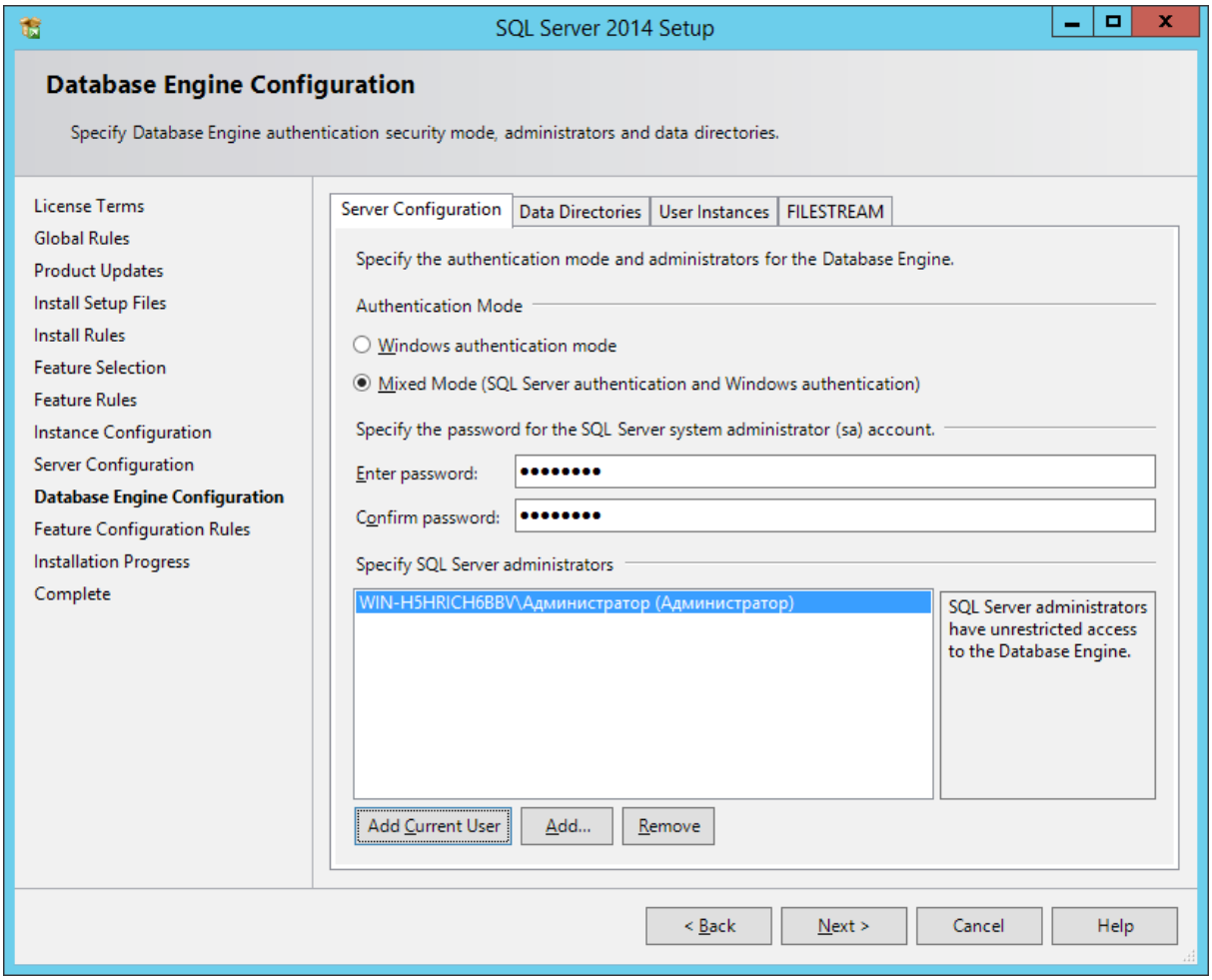

Figure 7 – Data base engine configuration

Account name is available in drop-down list.

After completing installation process a window should appear with messages on successful installation of all components.

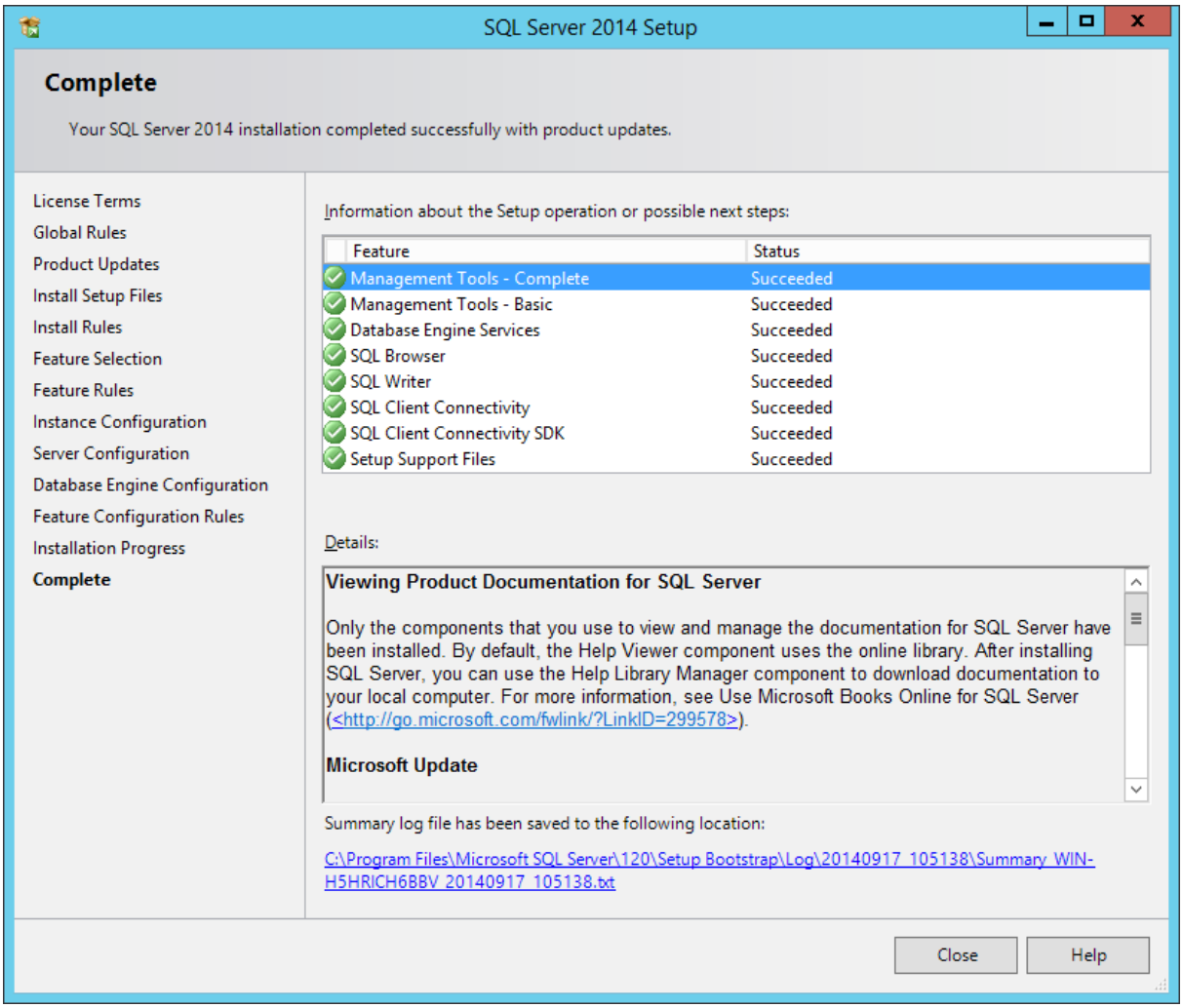

Figure 8 – Installation completed successfully

3.4 MS SQL Server 2014 DBMS setup

Permit server access via shared memory and using TCP/IP protocol in SQL Server Configuration Manager. To this end start *[Start Programs → Microsoft SQL Server 2014 → SQL Server Configuration Manager]* and in window shown on Fig. 9 call shared memory and TCP/IP protocol properties and enable these protocols. To this end restart “SQL Server” service.

Start service “SQL Server, browser”. To this end, use service properties on “Service” tab to select start mode “Automatic”, switch to tab “Logon” and press button “Start”.

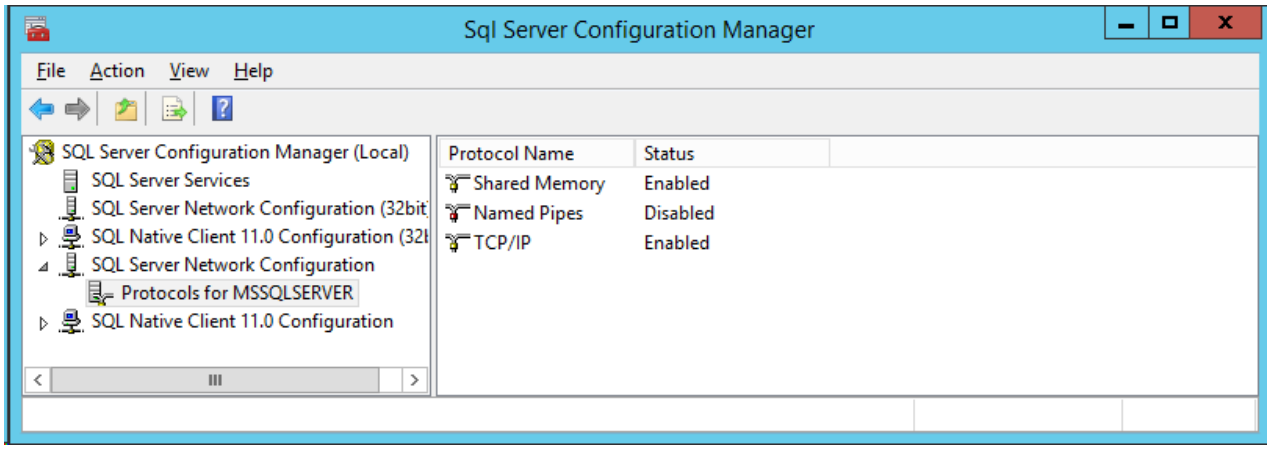

Figure 9 – SQL Server configuration manager.

MS SQL Server operation requires to open port TCP/IP 1433:

- press key combination **Win+R**, in opened window “Execute” input **cmd**;
- then in opened window execute command:
  netsh advfirewall firewall add rule name="MSSQL_TCP" protocol=TCP localport=1433 action=allow dir=IN

3.5 Data acquisition data base creation

To create monitoring data base proceed as follows:

- create folder if it is absent **[D:\DB]**
- start file **[D:\Services\LastDbSchema\CreateDB.cmd]**;
- check data base creation by opening Microsoft SQL Server program

Specify names for monitoring data base and site data base according to the WNM system installation log book for this project.

Management Studio and make sure that data bases are available according to data base list in log book.

3.6 SQL DB configuration import from XML-file

To import SQL data base configuration from XML-file start the program **[D:\Services\DatabaseEditor\DatabaseEditor.exe]**

Create new data base connection [Connection/Create new]

Connection name – it is recommended to name according to data base name.

Data base configuration file – by default.

Server – select current server from server list.

Authentication – according to WNM system installation log book.

Data base – select data base created in previous section from the list. Setup can be checked for correctness by pressing button “Connection test”.

After creating connection carry out Connection/Initialization of connection. After establishing connection, the message will appear in event log:

“Tables loading from DB [data-base-name] complete”.

To import configuration file execute **[File/Import from XML-file]**, select configuration file **[D:Services\DBData]**

Upon successful import the message will appear in event log:

“Loaded from file [path-file-name.xml]”

To check configuration import, open data base content in left window and double click, for example, **Parameters**: **Parameter list.**

Parameter list in cells with blue background will appear in left window.

Then save data base changes Ctrl+Shift+S or by double clicking icon with yellow cylinder and floppy disk in left window.

Upon successful saving the message will appear in event log:

“Saving all tables changes into DB [data-base-name] complete” and cells background will change to white.

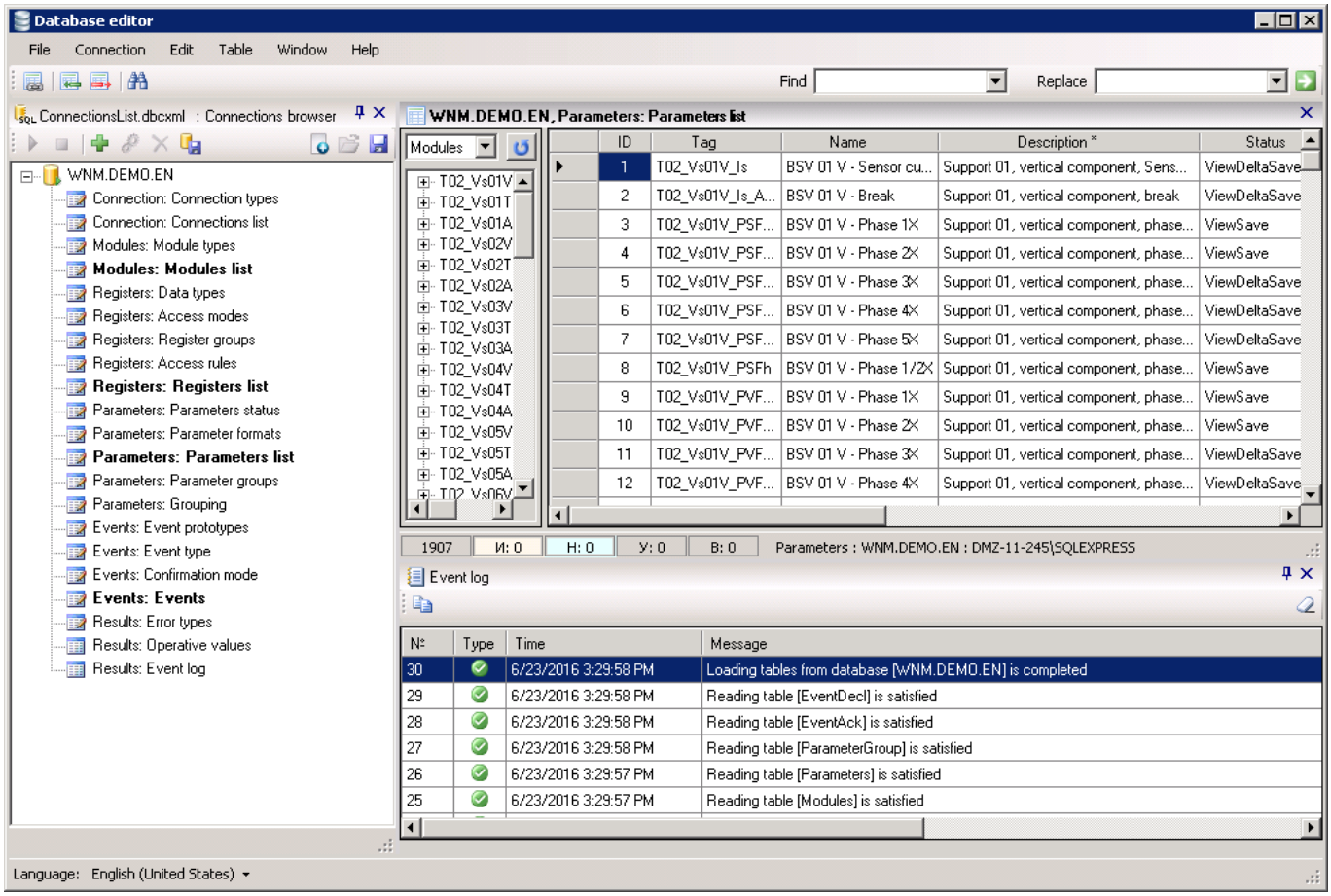

Figure 10 – Data base editor

3.7 WNMServer installation

To install WNMServer as a service proceed as follows:

- press key combination **Win+R**, in opened window “Execute” input **cmd**;
- then in opened window execute command:

D:\Services\WNMServer\ WNMServer.exe /install

- then to wait for the message:

The transacted install has completed.

Then open *[Control panel → System and Security → Administrative Tools → Services]* and in service properties (”Vibrobit Web.Net.Monitoring”): on tab “General” set start type “Automatic (Delayed Start)”, on tab “Recovery” set properties according to Fig. 11.

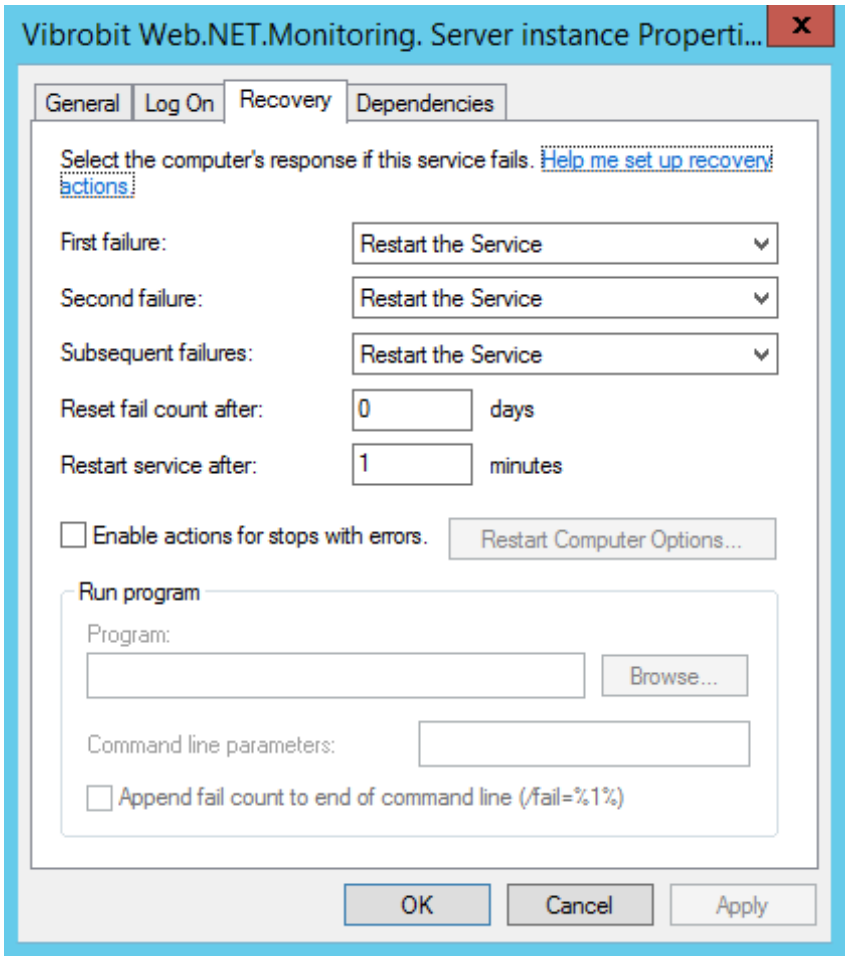

Figure 11 – DataAcquisitionService service properties. Recovery

Open *[Control panel → System and Security → Administrative Tools → Event Viewer]* and in service event log properties increase the log maximum size and set “Overwrite events as needed (oldest events first)” (Ref. Fig. 12).

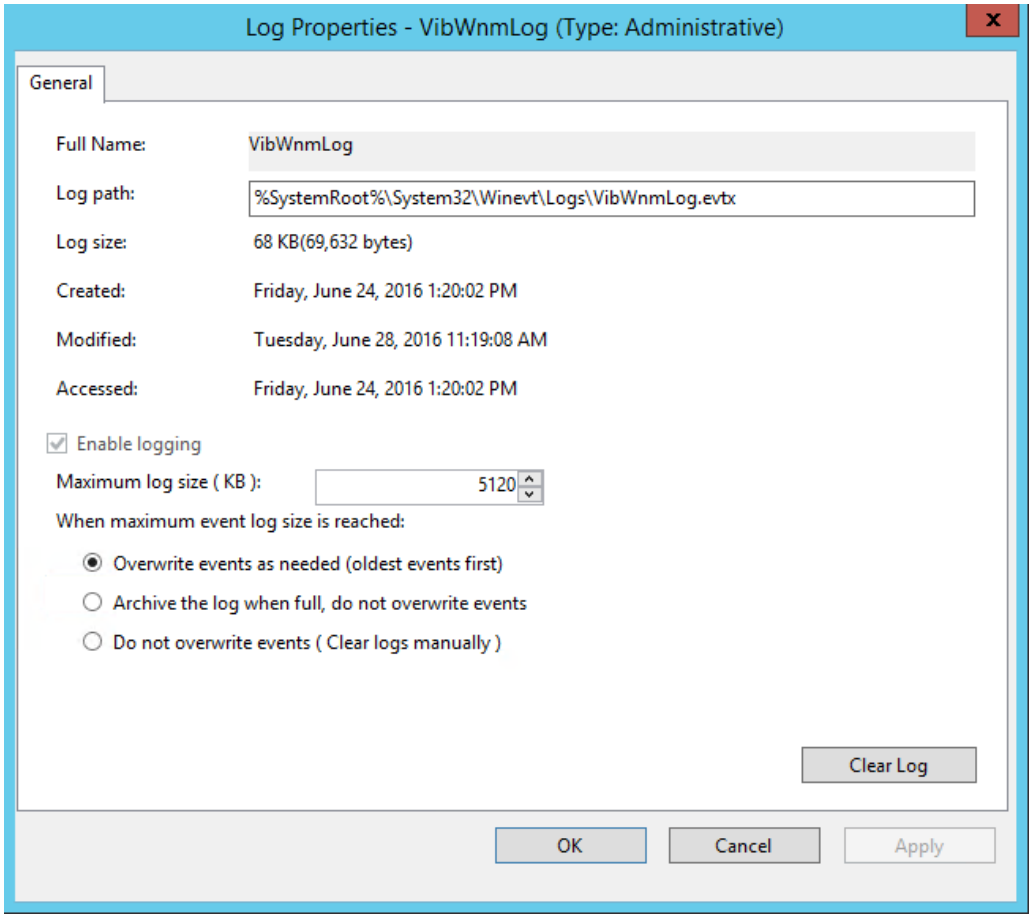

Figure 12 – VibAcqLog event log properties

3.8 IIS installation on Windows Server

To install IIS on Windows Server open server manager and execute menu item “Add roles and features” (Ref. Fig. 13).

- in program “Server manager” select item “Add roles and features”;
- follow installation wizard instructions to select role “Web-server (IIS)” (Ref. Fig. 14 – 23)

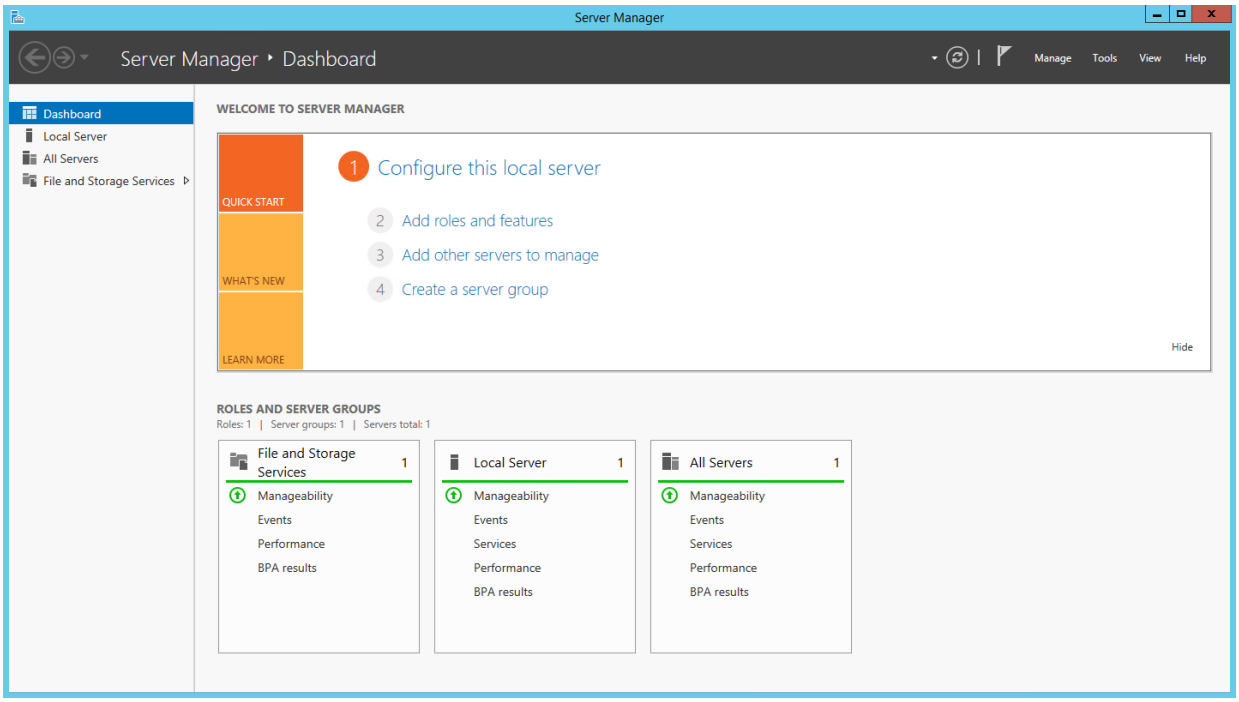

Figure 13 – Server roles

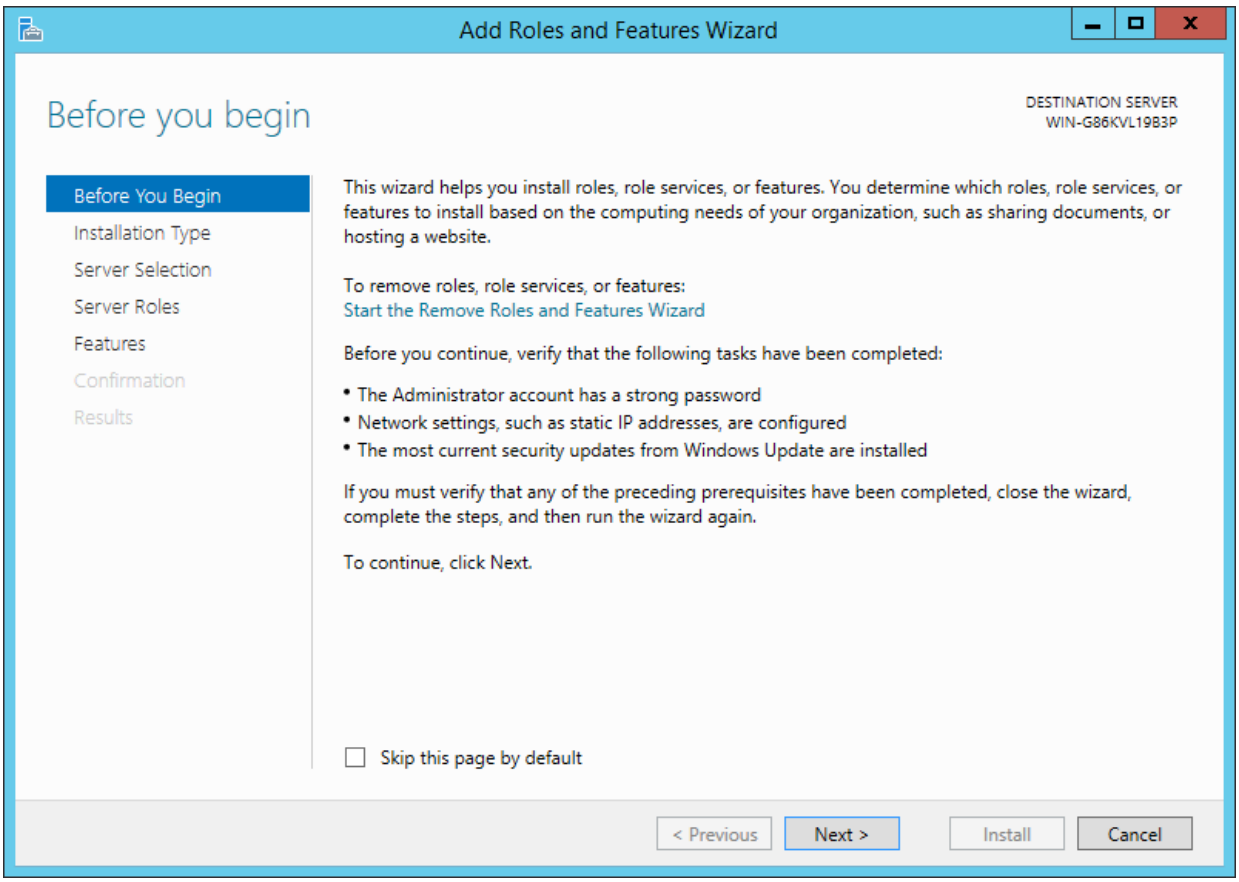

Figure 14 – Roles and components adding wizard

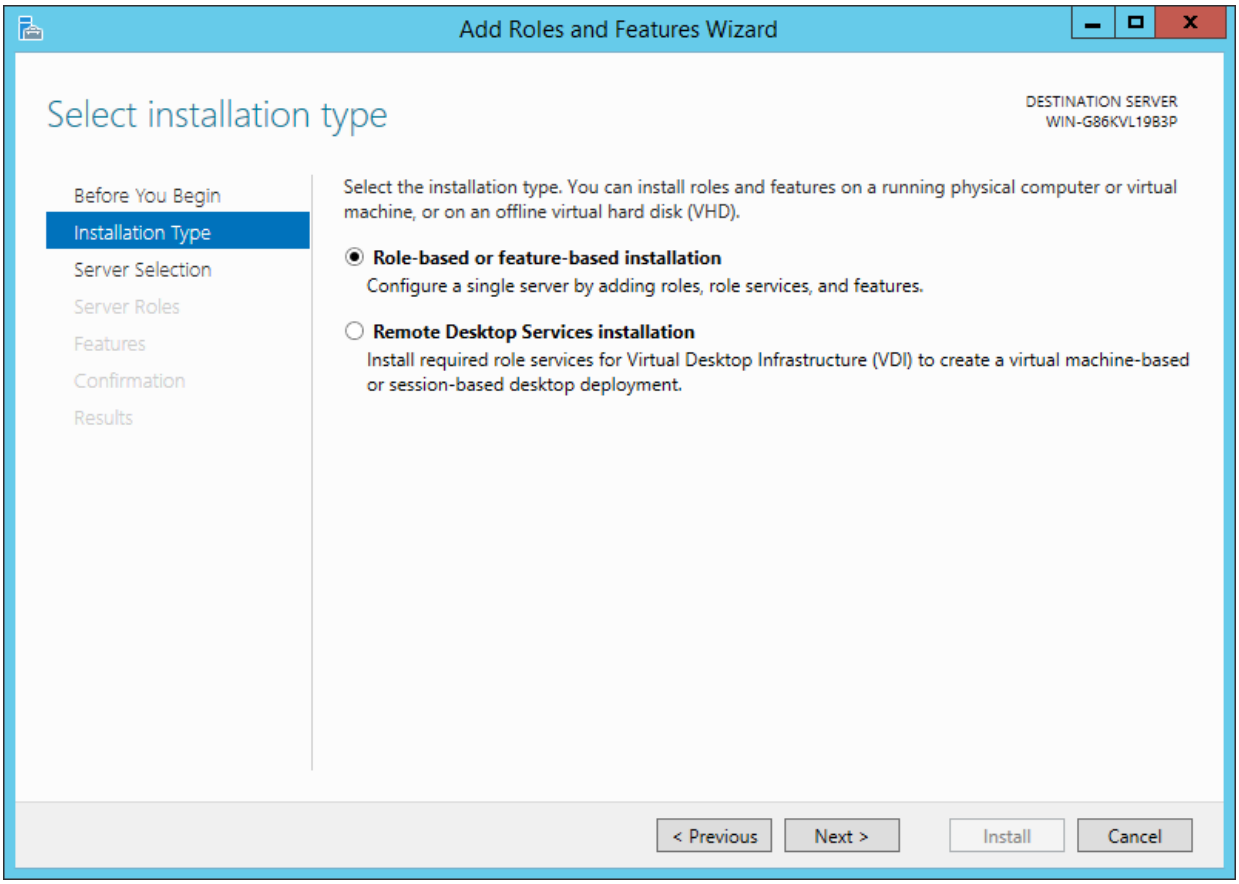

Figure 15 – Installation type selection

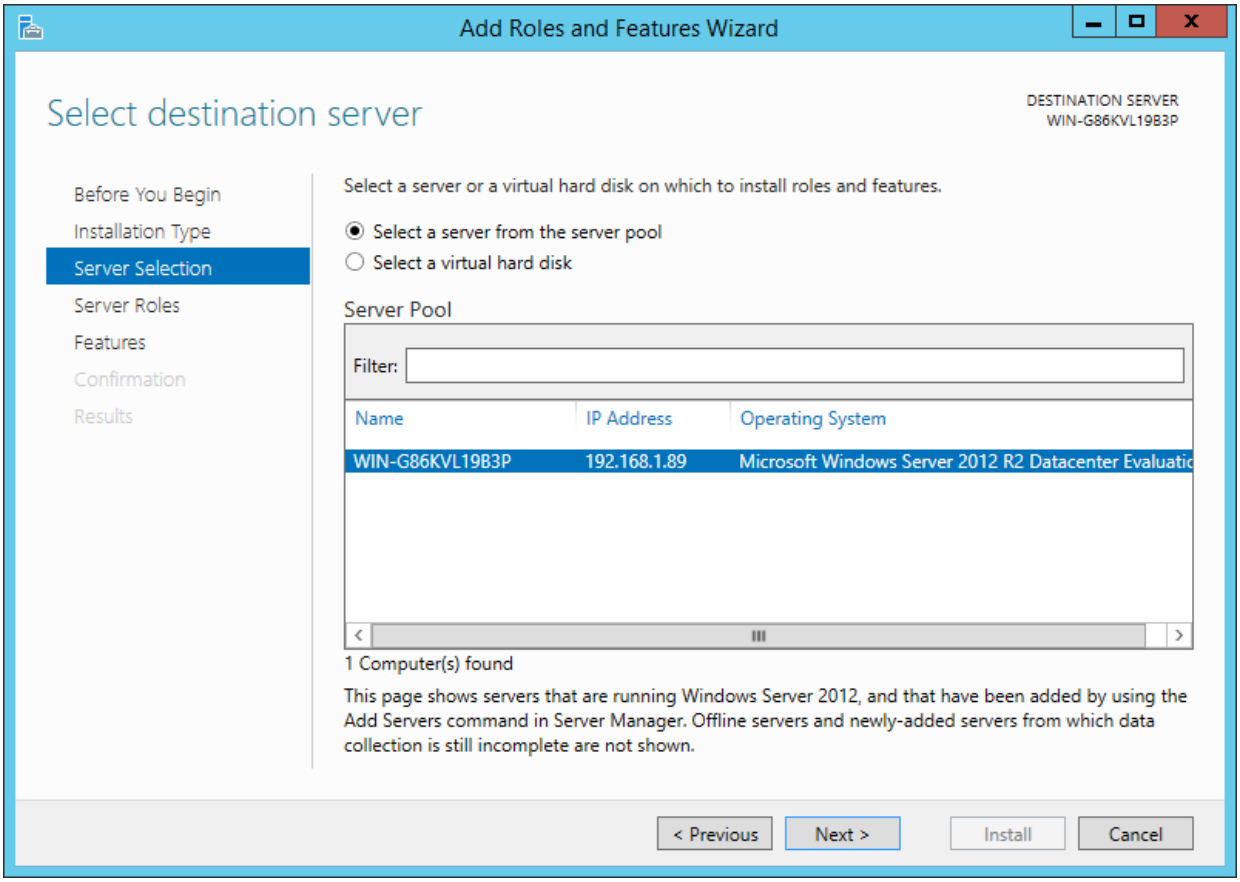

Figure 16 – Server selection for installation

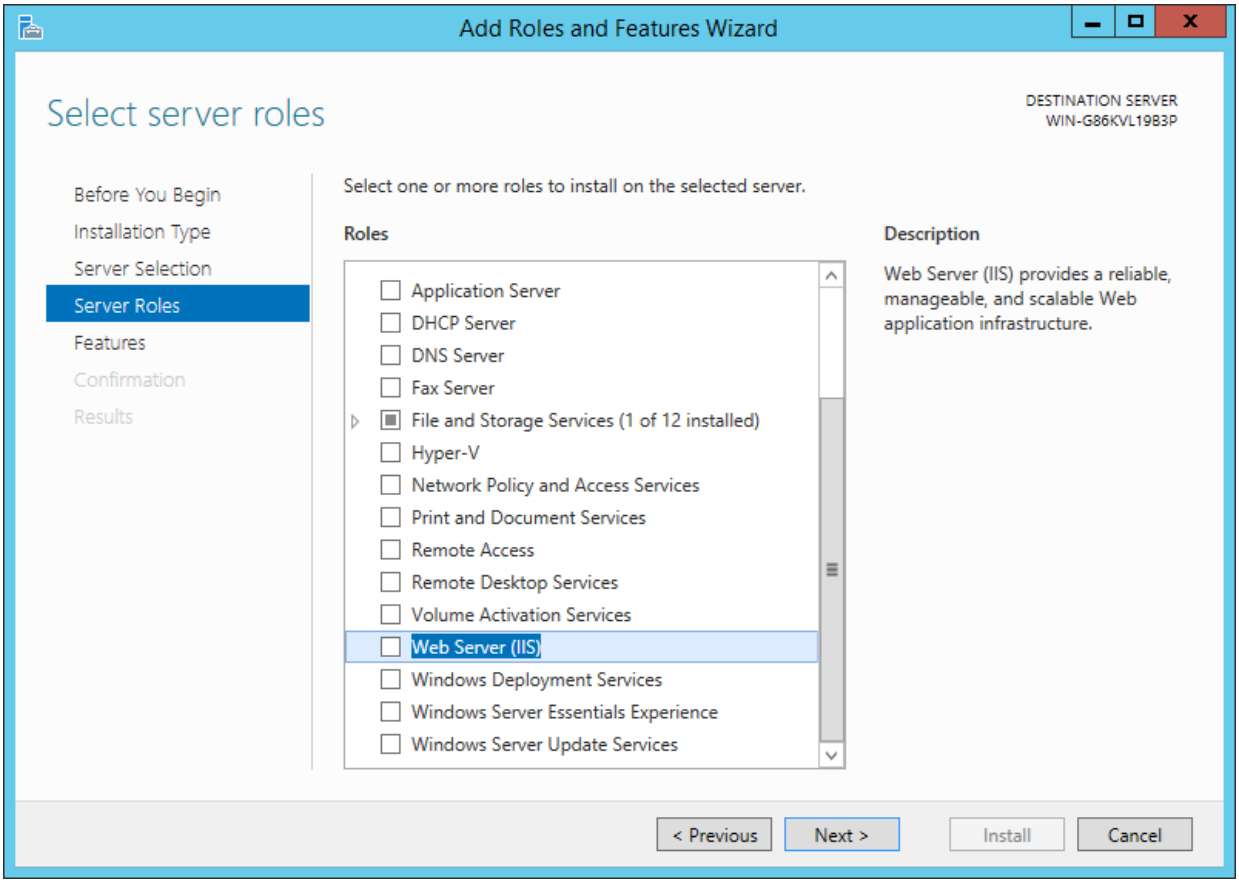

Figure 17 – Server roles list

When selecting item “Web-server (IIS)” it will be suggested to select components (Ref. Fig. 18).

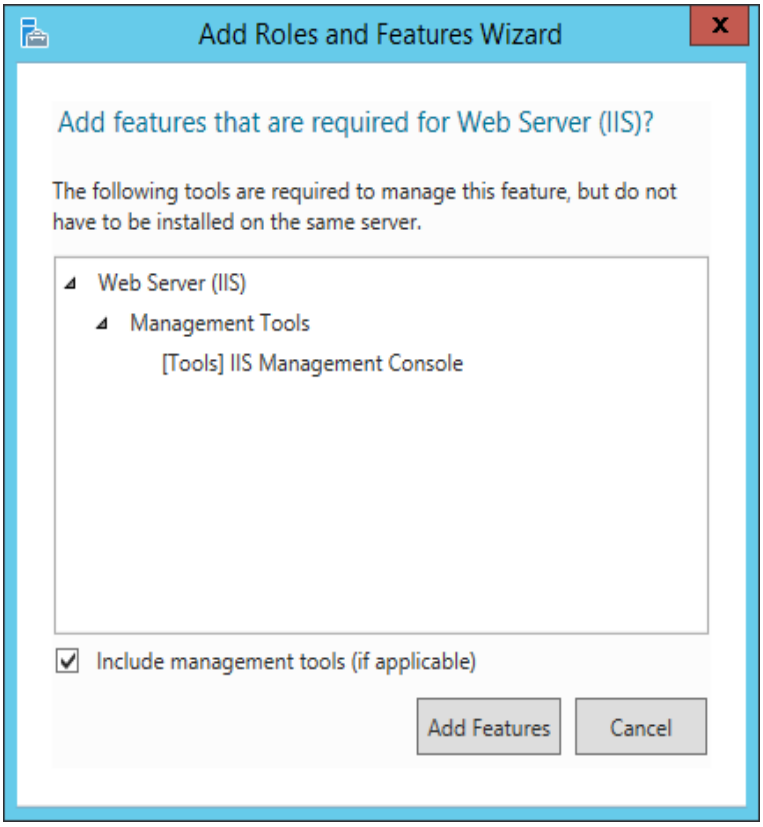

Figure 18 – IIS additional components

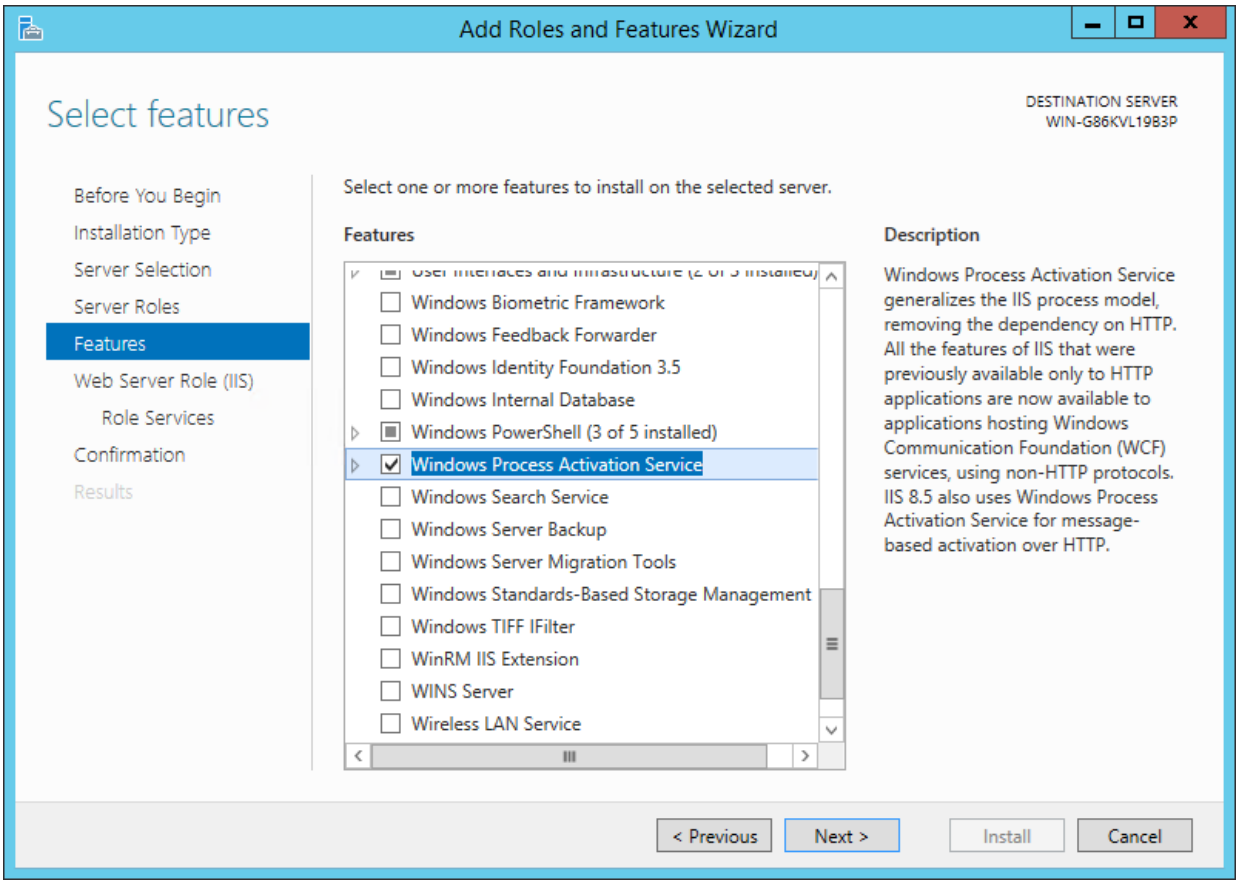

Figure 19 – IIS components selection

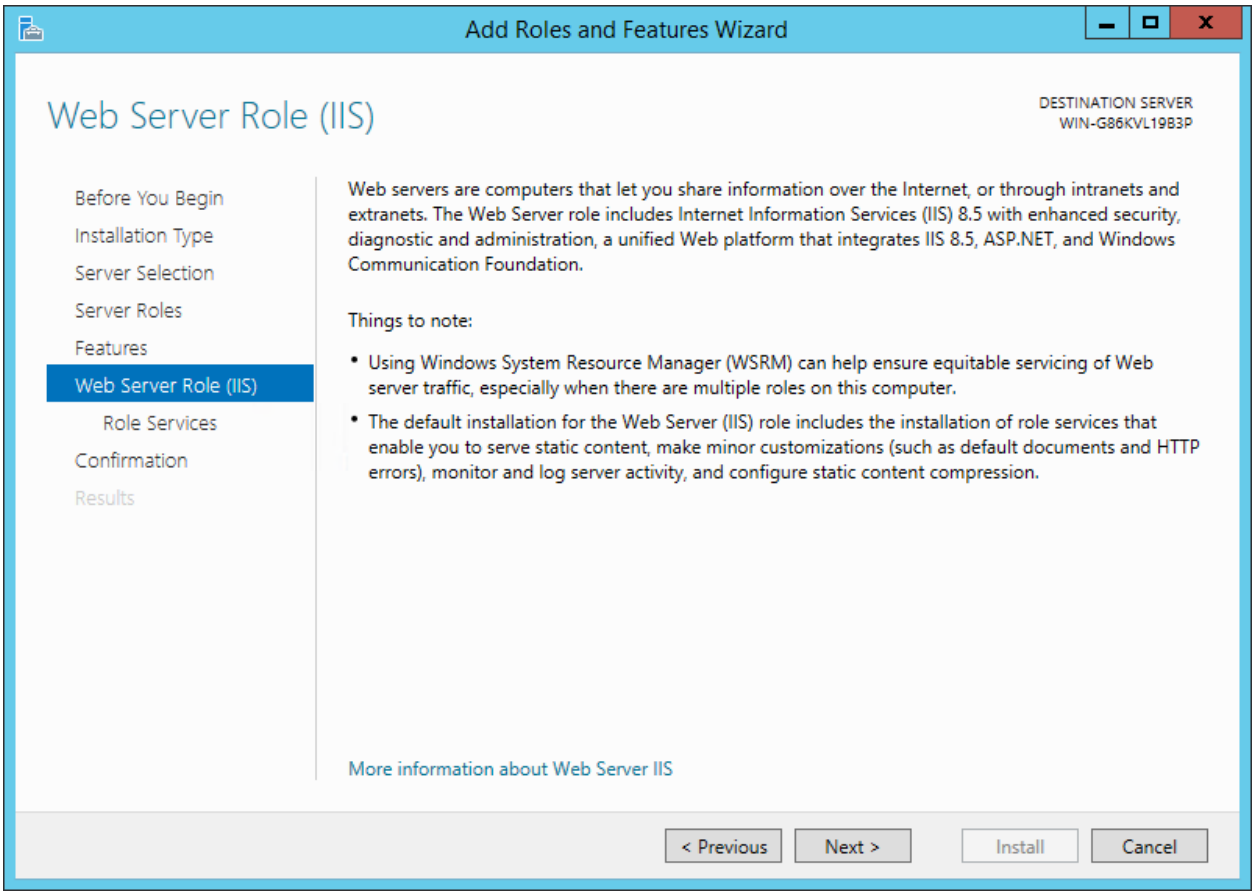

Figure 20 – IIS role description

Then it is necessary to select Web-server (IIS) services for installation.

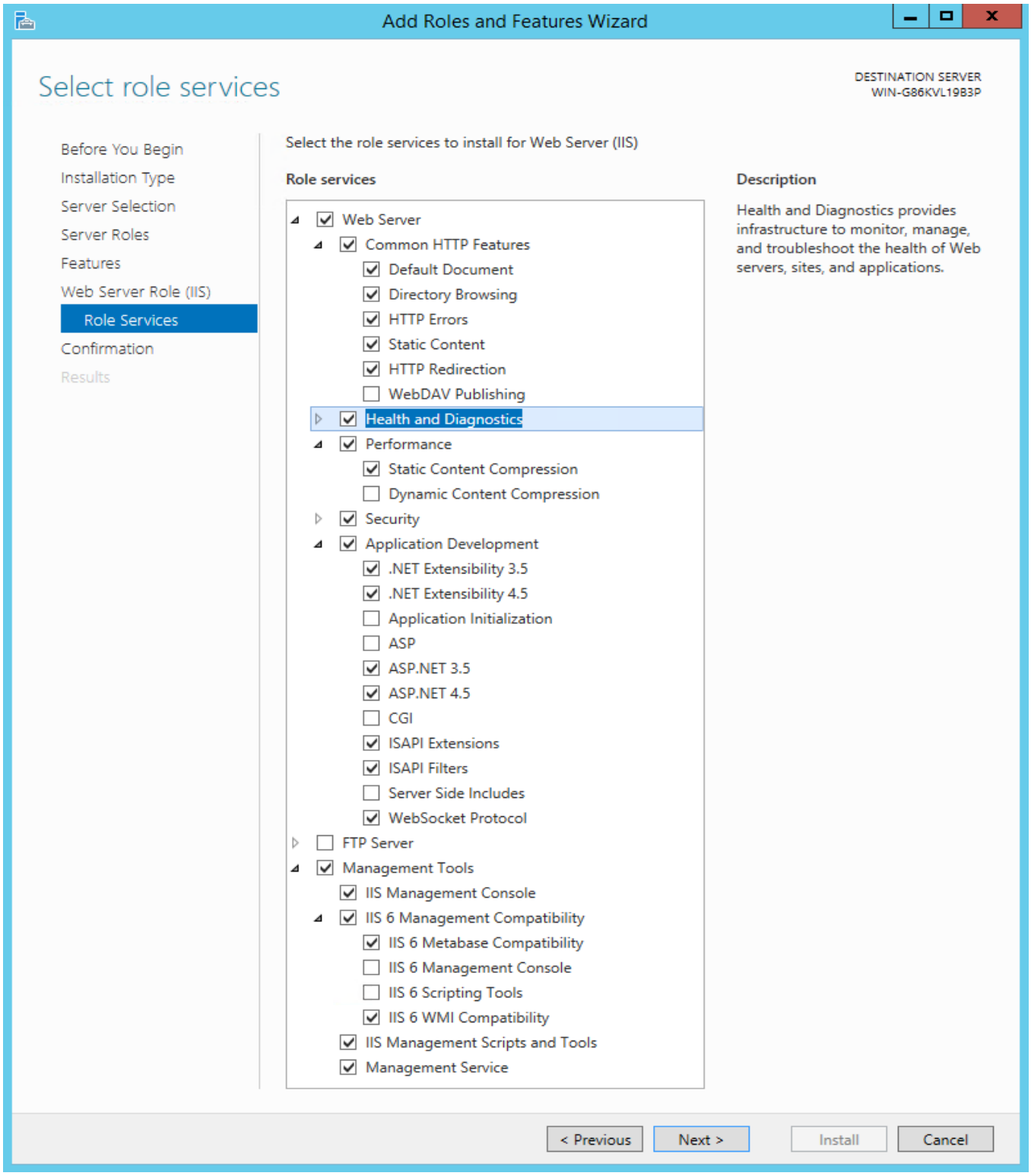

Figure 21 – IIS role services selection

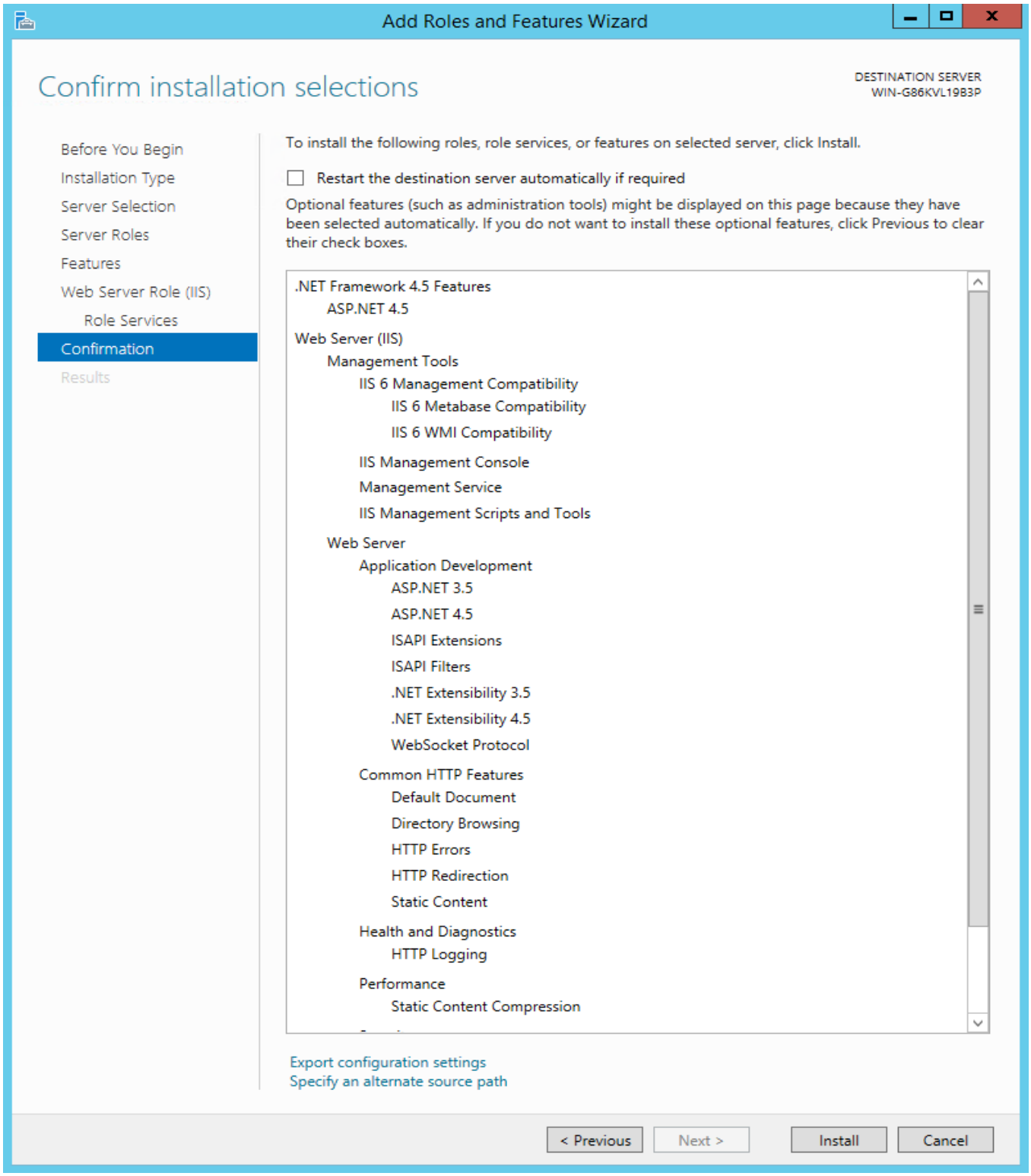

Figure 22 – IIS installation confirmation

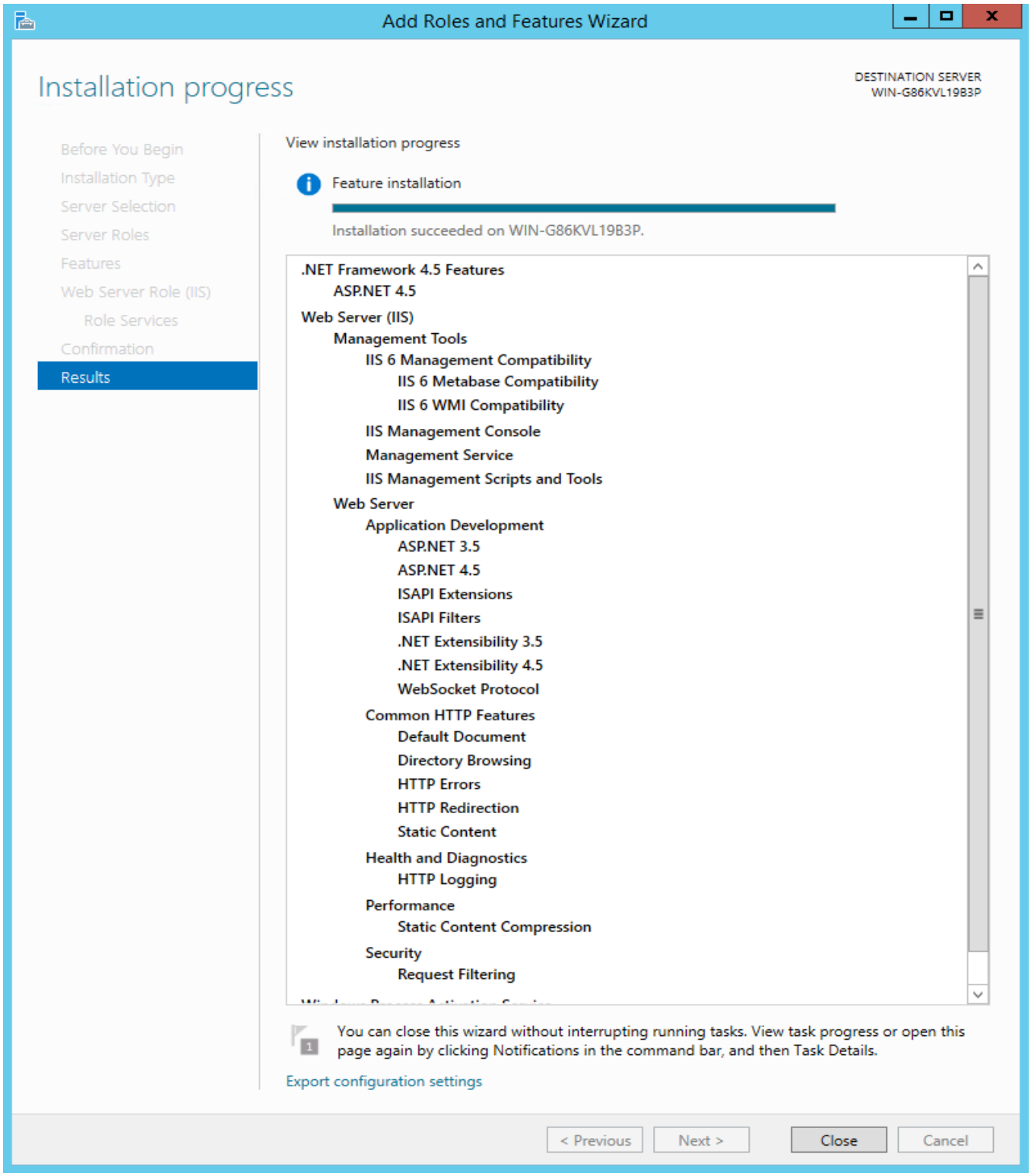

Figure 23 – IIS components installation progress

3.9 Web-application installation

To install web-application, in Windows Server menu **“Start”** open folder **“Administration”** start **IIS services manager**. Then in left window open branch **“Default Web Site”**.

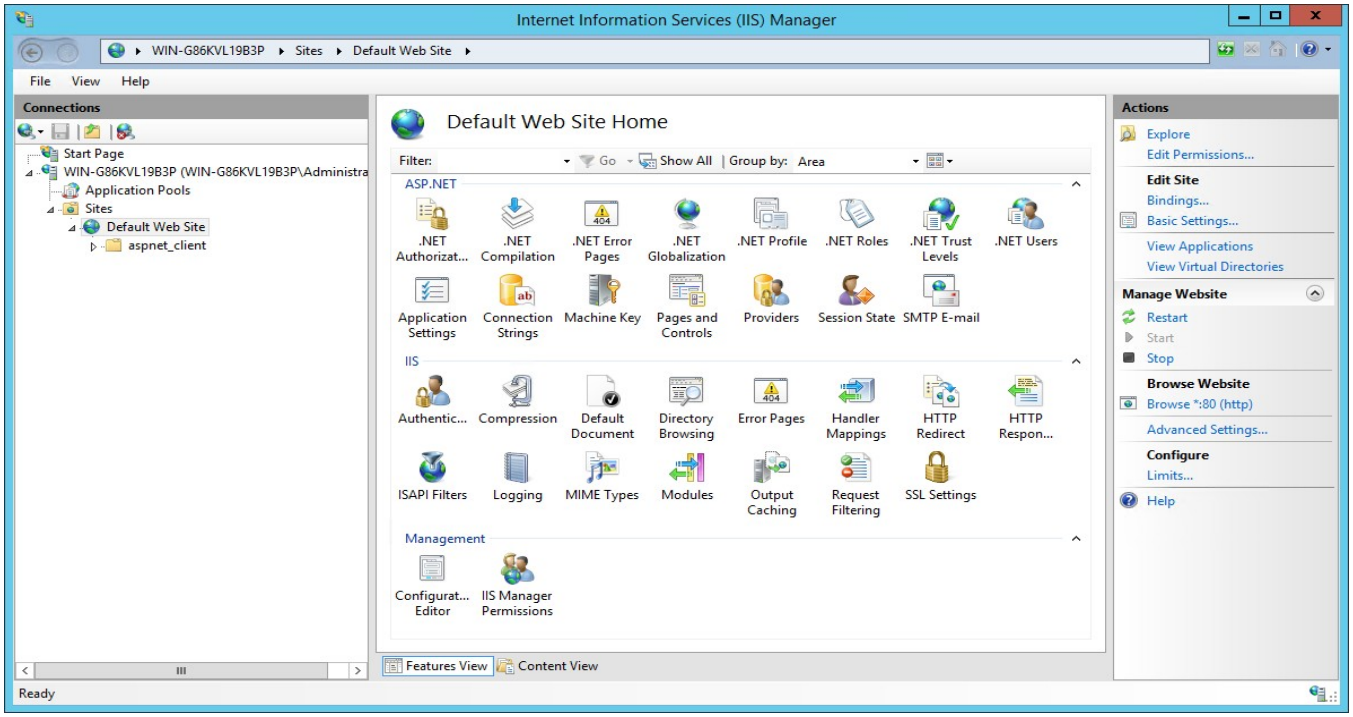

Figure 24 – IIS services manager

Then after right clocking on item **“Default Web Site”**, select in menu **“Add application...”** then a window will open (Ref. Fig. 25)

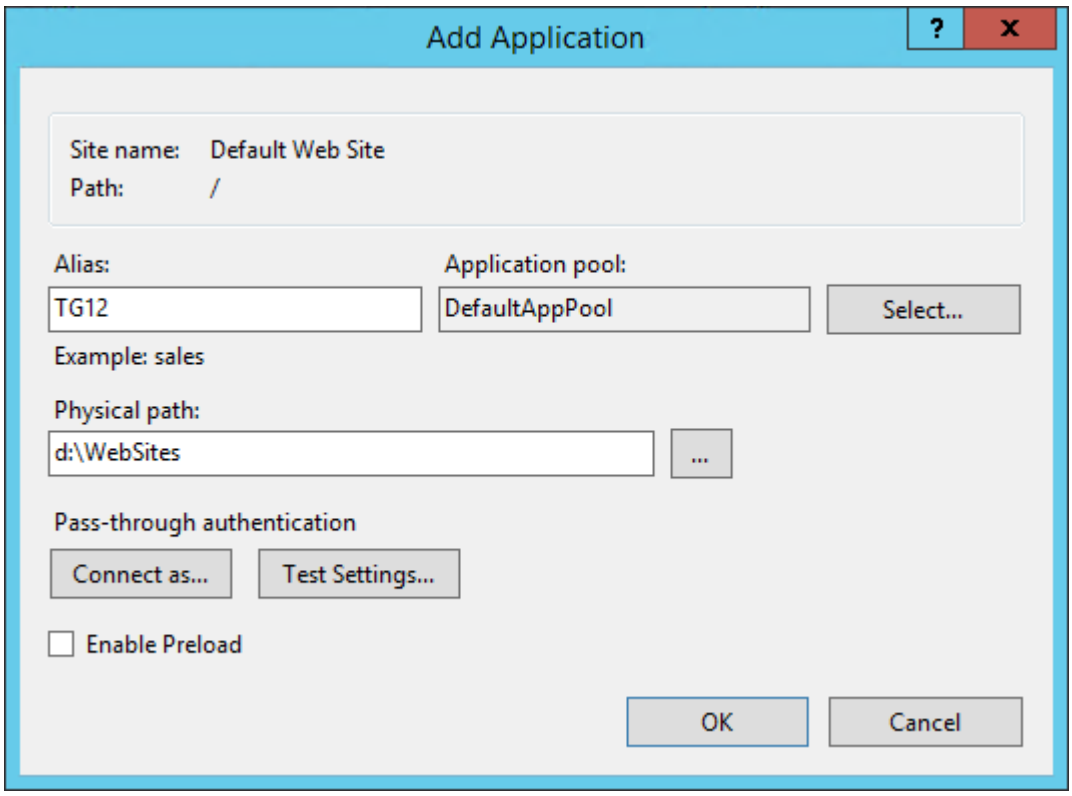

Figure 25 – IIS application adding

In this window specify Alias and Physical path (according to WNM installation log book). Then on item **“Default Web Site”** in right window double click “HTTP redirect”

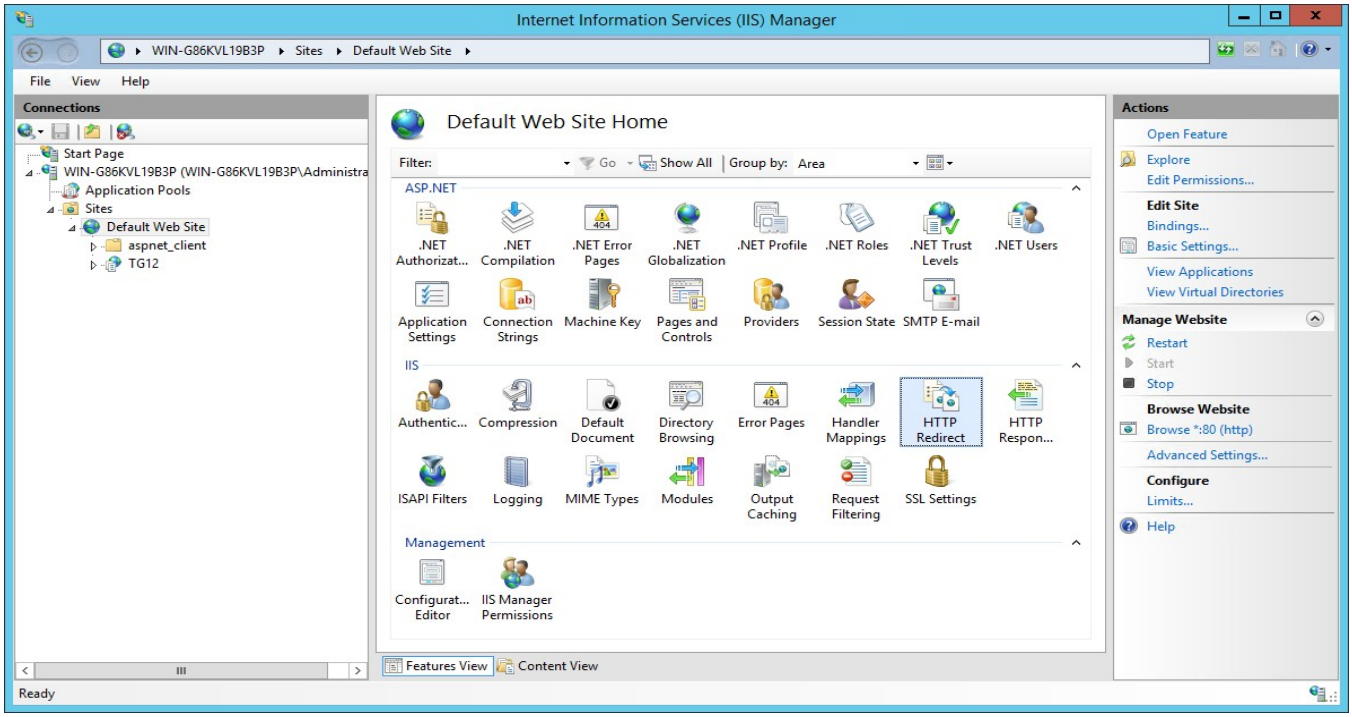

Figure 26 – IIS services manager

In opened window check items according to Fig. 27.

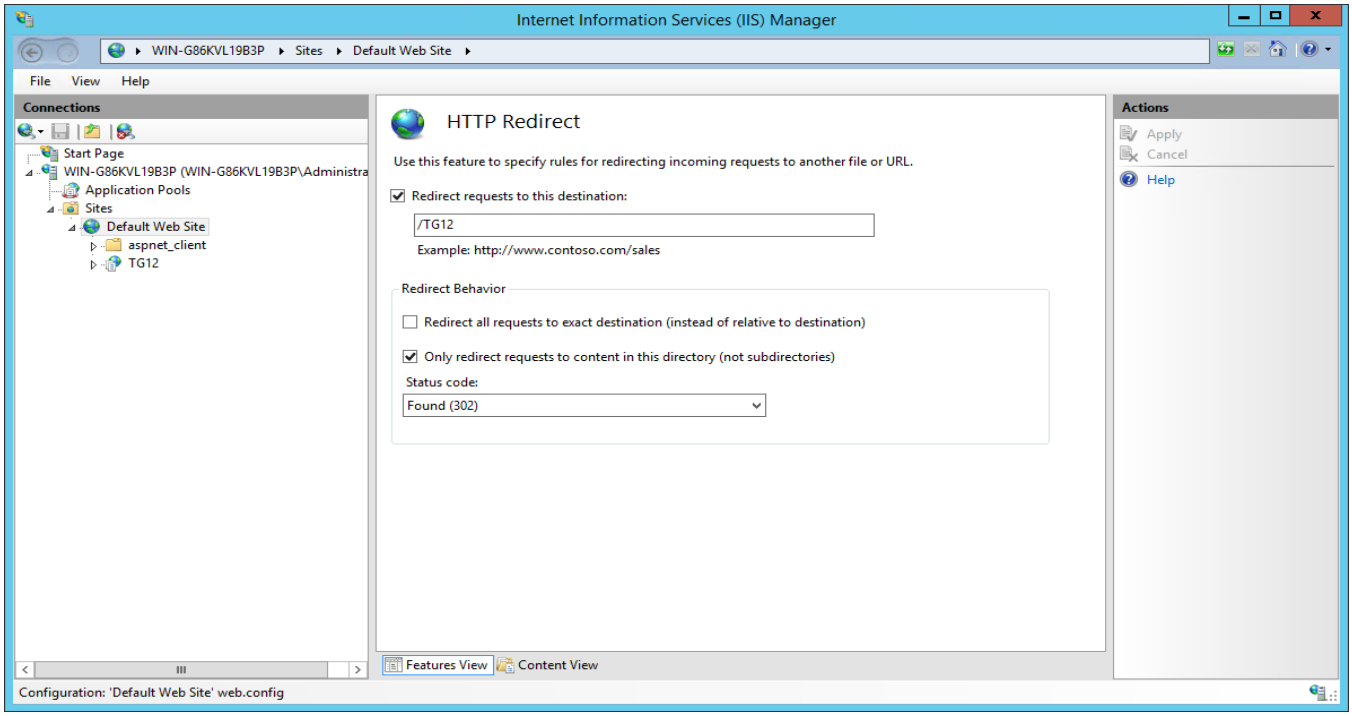

Figure 27 – Protocol redirection for web-site

Then execute similar actions for web-site in left window and set up according to Fig. 28.

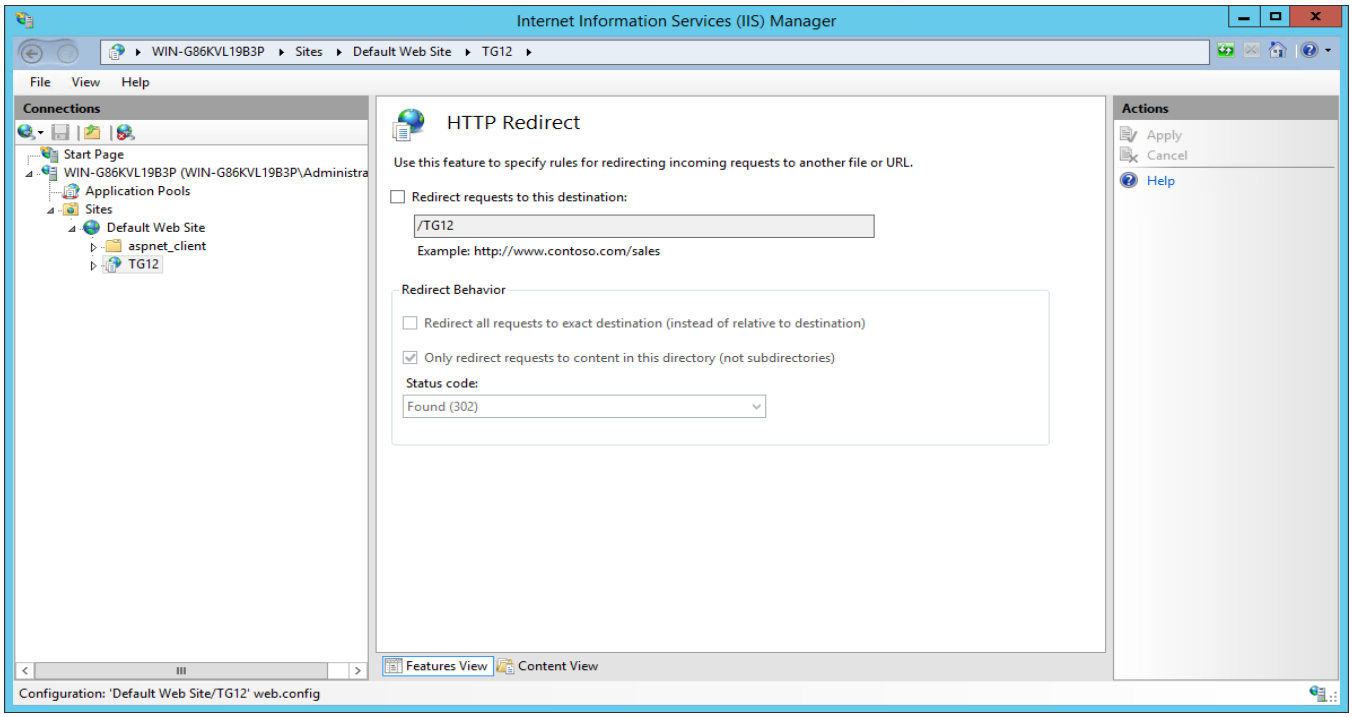

Figure 28 – Protocol redirection for web-site

Then it is necessary to restart IIS web-server, to this end in left window switch to item with server name and right window execute command **“Restart”**

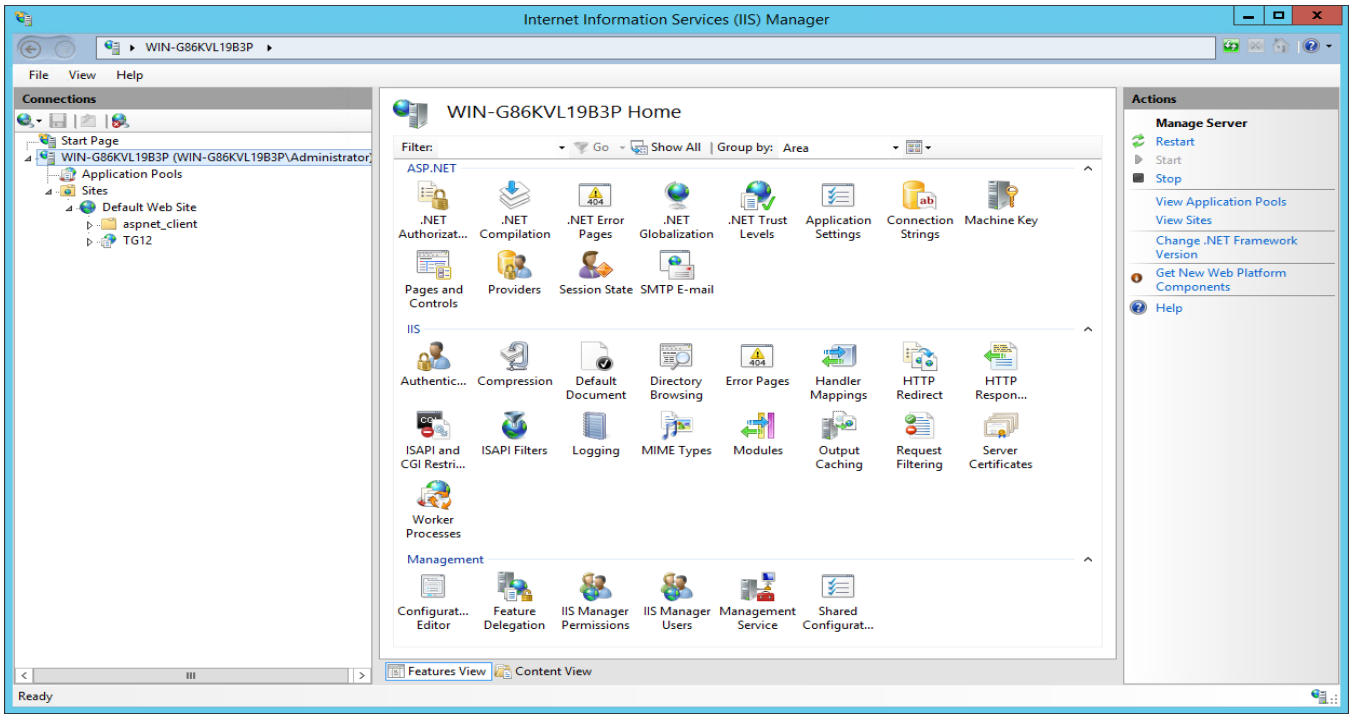

Figure 29 – IIS services manager (Server control)

4 System start-up

To start-up system proceed as follows:

- insert electronic key into free USB-port;
- open *[Control panel → System and Security → Administrative Tools → Services]* and start data acquisition service.

ⓘ Important information

1. If data acquisition service at the system start-up moment was in “Operating” status and electronic key was not inserted, then for the service normal operation it is necessary ton insert electronic key and then restart the service.

Web-application is available at address: http://localhost/[monitoring_object_name[monitoring_object_name] on server or server IP-address.

Administrator should input login and password as identification data for site access (according to WNM installation log book).

5 System servicing

5.1 Data acquisition and analysis service administration

Acquisition service doesn’t require complex and periodical maintenance operations.

Data acquisition service status periodical inspection may consist of the following items:

- viewing acquisition service event log for errors;
- viewing read parameters status using utility Server.Monitor;
- viewing data acquirers status using utility Server.Monitor;

5.1.1 Viewing acquisition service event log for errors

Table 5.Event service operation failures and personnel actions.

№	Characteristics	Possible causes	Personnel actions
1	Value reading error from measurement module.	Computer communication channel with module failed.	Remove failure.
		Measurement module failed	
2	Data base value recording error	Changed or not setup authentication parameters of user, from which name recording is executed.	Check connection lines to data base in service configuration and compare with MS SQL Server instance settings.
		Data base full. (Can be when using SQL Express)	Decrease results storage depth in service configuration and restart service.
		Data base server file level error.	Carry out diagnostic studies.
3	Data reception/sending error from APCS	Communication channel failed	Remove failure
		TCP port blocked by Windows firewall.	Add allow rule to Windows firewall.

5.1.2 Viewing read parameters status using utility Server.Monitor

To view read parameters status of monitored objects, proceed as follows:

- start utility Server.Monitor located at: **[D:\Services\Server.Monitor\ WNMServer.Monitor.exe];**
- select necessary data acquisition service instance (e.g. “local server”);
- connect to service and initialize available diagnostic data acquisition service

modules by pressing button “load widgets”

- sequentially go through all data acquisition module instances of every monitored object (Ref. Fig. 30) and check measurement channels status.

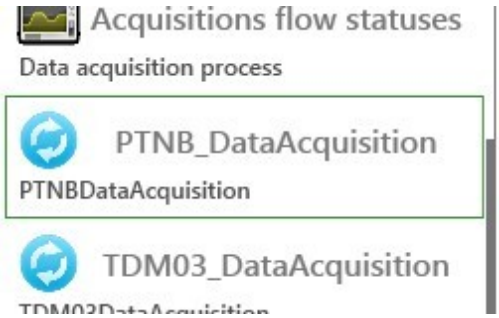

Figure 30 – Diagnostic module icon of monitoring object measurement channels status viewing

Monitored object measurement channels status viewing diagnostic module window consists of the following elements:

- monitored objects logic group header;
- list of objects included into this group. The list consists of button-switches responsible for indicating object measurement channels in a window.
- server query type switch.
- tick checked – queried are only visible parameters;
- tick unchecked – queried are all parameters of monitored object logic group;
- switch of channels indication with parameters error statuses.
- tick checked – showed are only measurement channels with available parameters with error statuses;
- Tick unchecked – parameters are not filtered by status;
- Measurement channels logic groups list of one monitoring object. The list consists of button-switches responsible for indicating channel groups.

List of logic groups:

- Vs – supports vibration;
- Vr – rotor vibration;
- Mq – mechanical values;
- Term – temperature values;
- Ungrouped – additional measurement channels;

Measurement channels panel. Measurement channel parameters status bar (Ref. Fig. 32) contain the following information:

- measurement channel name;
- measuring units;
- parameter average value;
- line break indicator;
- short circuit indicator;
- vibration step detection indicator;
- setponts current status;
- and other parameters depending on measurement channel;

Applied on measurement channel status bar is color indication to display parameter acquisition status:

- green – parameter read successfully;
- blue – parameter read from buffer. There is a control module reading delay;
- black – parameter read with error;

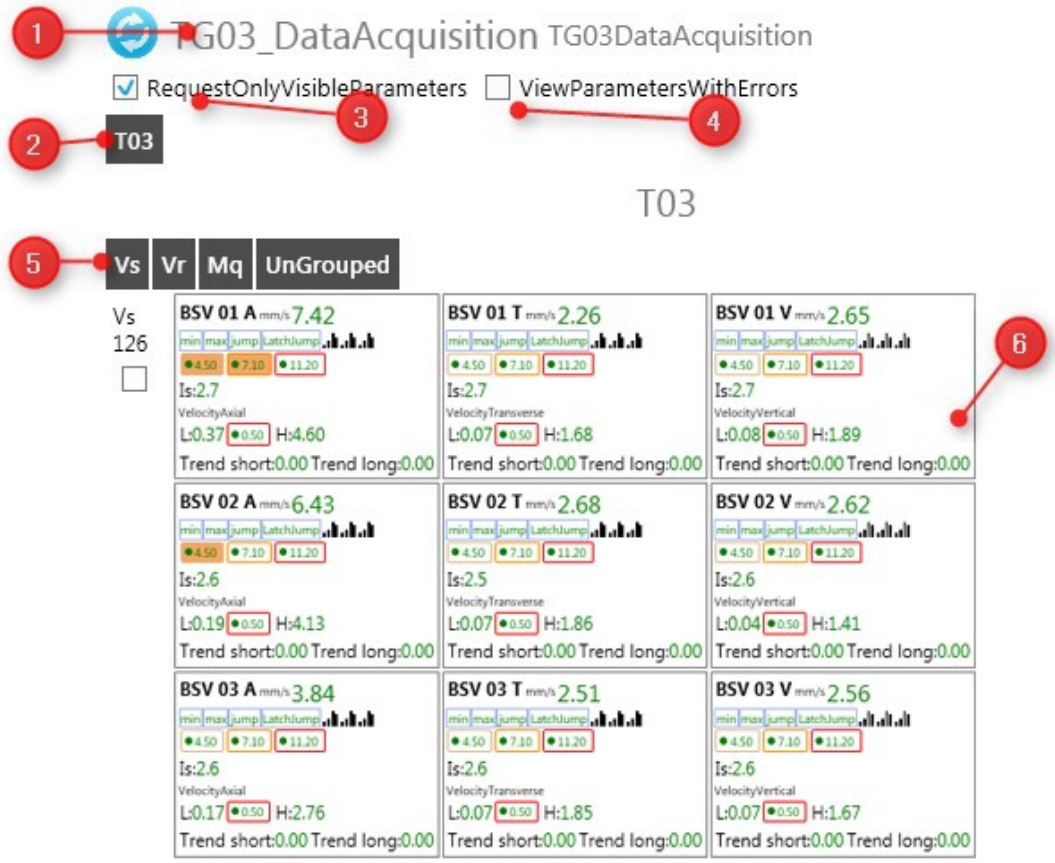

Figure 31 – Diagnostic module window of monitored object measurement channels status viewing



Figure 32 – Measurement channel parameters status bar

5.1.3 Viewing data acquirers status using utility Server.Monitor

For sequence of utility start and service connection ref. p.5.1.2.

To view data acquirers status open the corresponding module (Ref. Fig. 33).

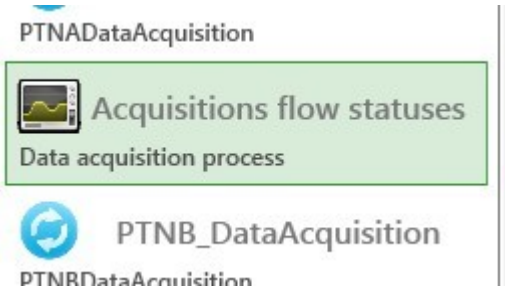

Figure 33 – Diagnostic module icon of data acquirers status viewing.

Diagnostic module window of data acquirers status viewing module (Ref. Fig. 34) consists of unit list, indicating monitored object data acquirers status, serviced by this data acquisition and analysis service instance.

The following information is available for each data acquirer:

- list of data acquiring process participants, divided into logic groups. List of participants changes depending on service configuration;
- duration of last operation, executed by participant in milliseconds;
- color indication of participant last operation result.

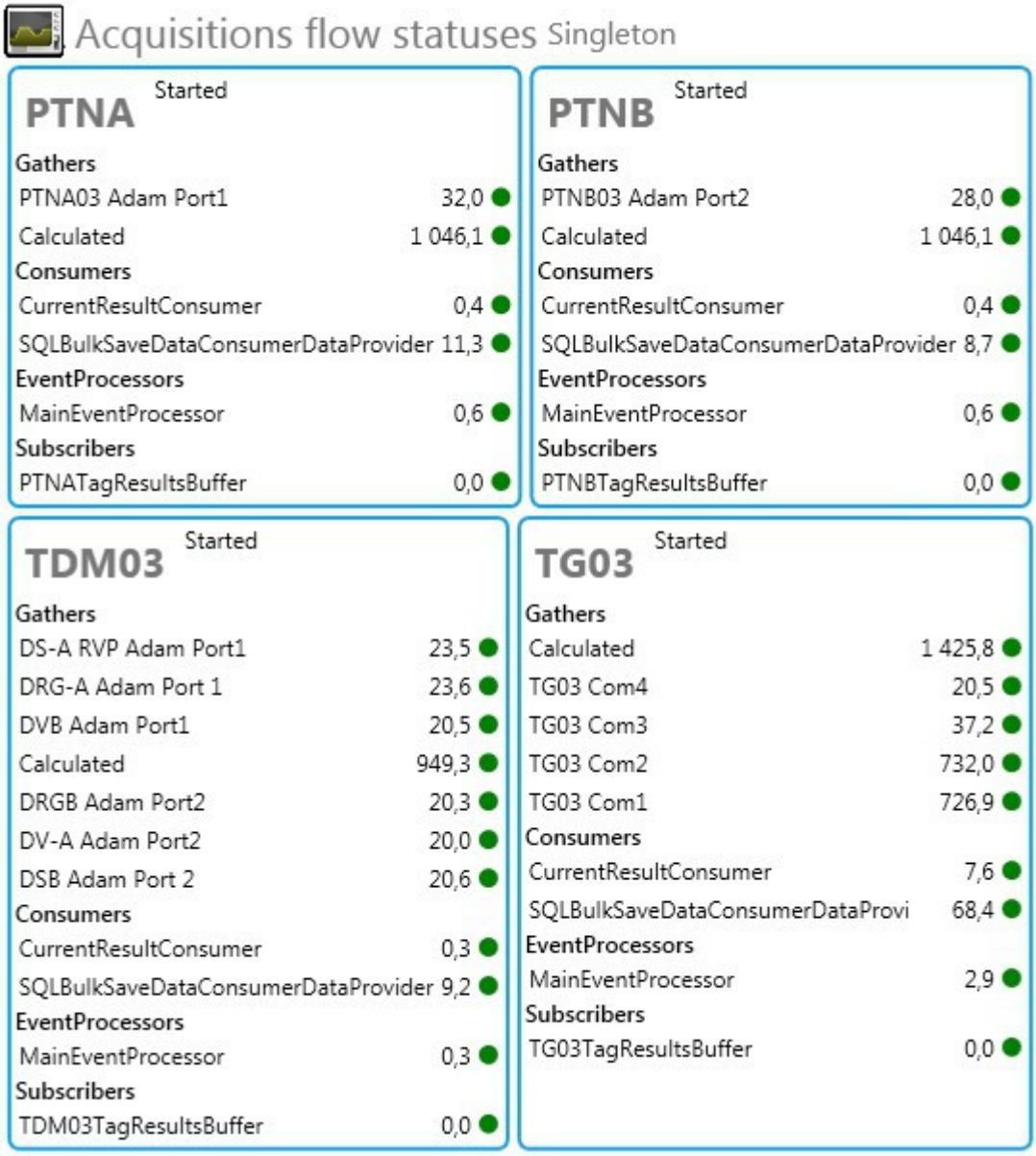

Figure 34 – Data acquirers status viewing diagnostic module window

5.2 Web-application administration

5.2.1 System users control

To control users in menu select *[Administration → User control]* (Ref. Fig. 35).

The following operations can be executed on user accounts:

- search;
- deletion;
- activation and deactivation;
- unblocking;
- adding to groups and deletion from groups;
- settings editing;
- password change.

Users can be searched in two ways:

- by login first letter, pressing button with corresponding letter;
- by login several first letters, entering query into line and further pressing button “Search”.

To remove users, check every user login to be deleted and press button “Delete”.

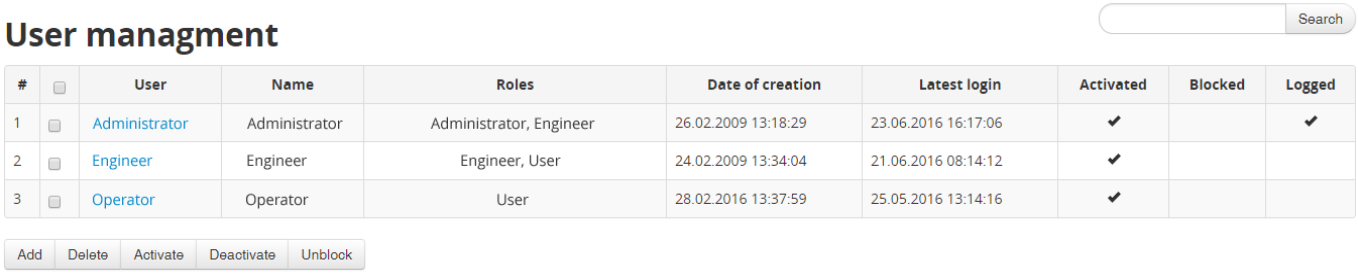

Figure 35 – System users control

Any user in system can be activated and deactivated. To this end check user login to be activated and press button “Activate”. To deactivate user execute similar actions.

If user entered incorrect password ten times, this user is blocked. To unblock user check its login and press button “Unblock”.

To add to group and remove from group check every user login to be added or deleted and select from drop-down list “Add to group” or “Delete from group”.

To edit user profile or change password press the user login.

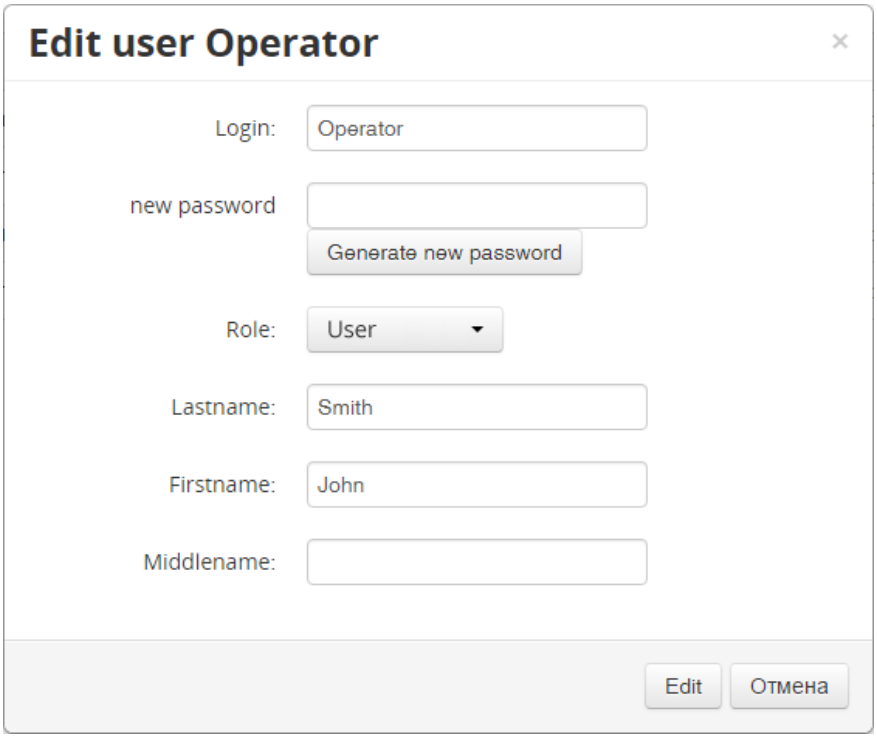

Figure 36 – User identification

On tab “New password” (Ref. Fig. 36) password can be changed using password generator or specify own new password.

Password generator generates password randomly.

After edit user profile or password change press button “Edit”.

5.2.2 Adding new user

To add new user in menu select *[Administration → Add user]*.

New user creation page is a wizard.

At first step (Ref. Fig. 37) enter login and password with confirmation, then press button “Create user”.

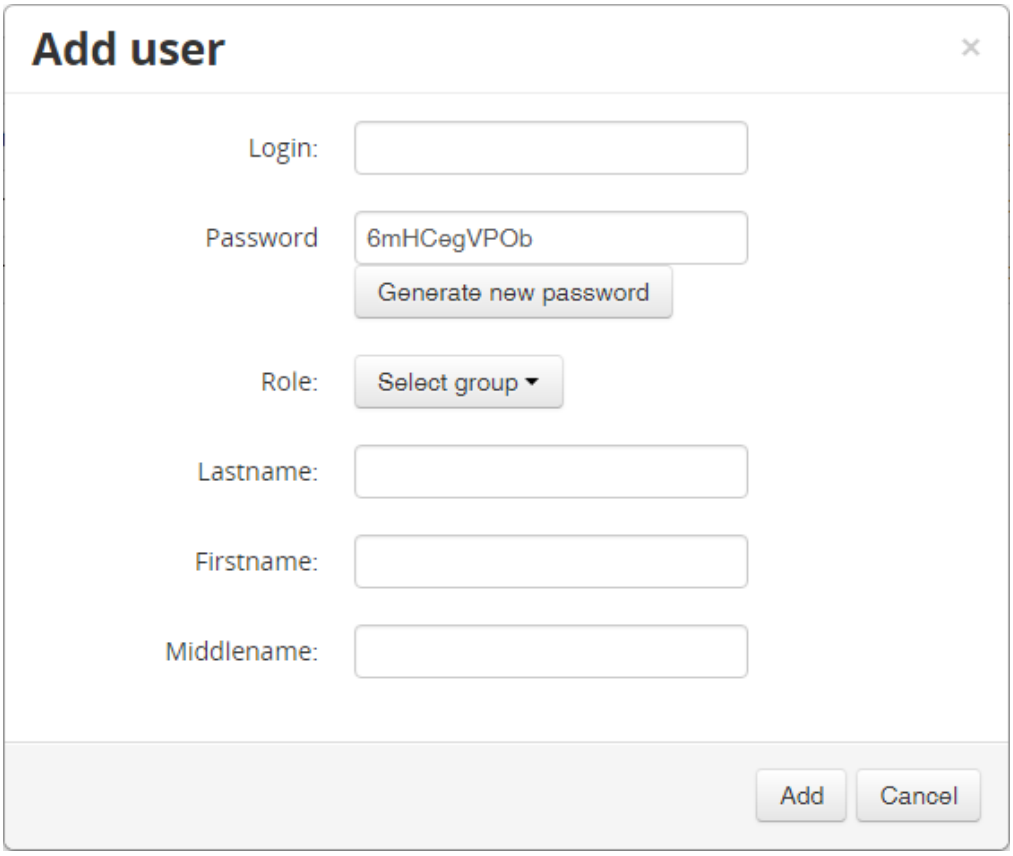

Figure 37 – New user creation. Login and password input

At second step (Ref. Fig. 37) specify groups to include user into, enter personal data and user settings.

To complete user creation press button “Add”.

5.2.3 Event sets

To control event sets in menu select *[Administration → Event sets]*.

Event sets are presented as a list. There are the following control functions:

- adding;
- deletion;
- event sets editing.

To add new event set proceed as follows:

- press “Add” button;
- in appeared window in field “Name” enter name of future event set;
- in field “Description” it is permitted to enter additional description of event set;
- then select those events that should be included in this set, checking the corresponding line;
- after selecting all necessary events press button “Add” in the end of the list;
- a window will open with list of all selected events, if it is necessary to add more events, press button “Add”, if obtained list corresponds to the specified requirements, then press button “Return to list”.

To delete event set just select set to be deleted by checking it and press button “Delete”.

To edit event set click on set name in event sets list and in opened window add or delete events included into the set.

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Additional information sources

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Site: http://www.vibrobit.ru

Developer’s site contains large amount of reference information on system operation, frequently asked questions, developers feedback.

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Notes

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