

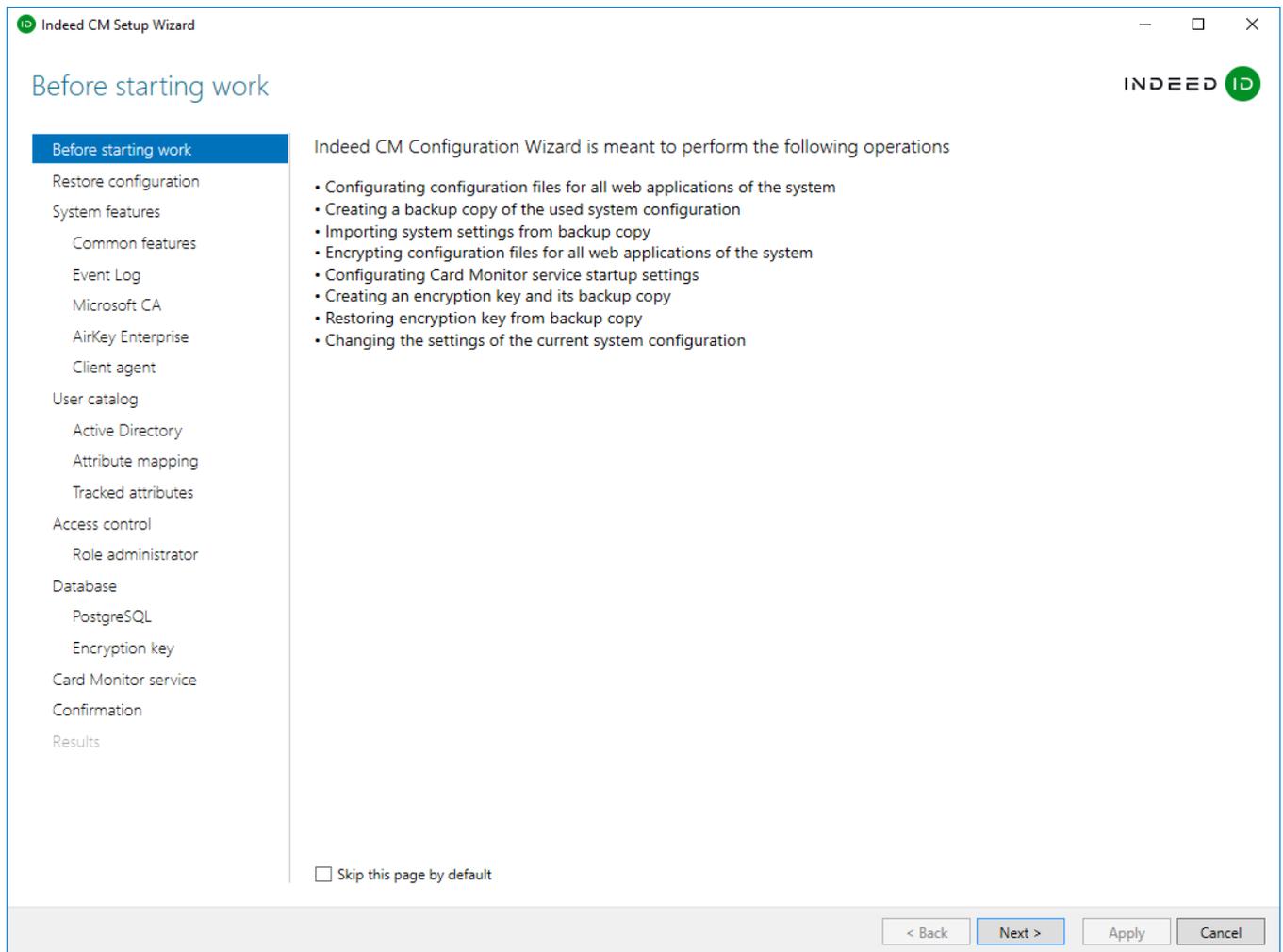
System configuration

You have to fill in the necessary values in the configuration files of each service at the system deployment stage. Configuration files of all system services reside in the root folder of IIS web applications (default path is %SystemDrive%\inetpub\wwwroot).

i Card Monitor service configuration files are located in %ProgramFiles%\Indeed CM\CardMonitor.

Setup of configuration files is carried out using **Indeed CM Setup Wizard**. The latter runs automatically upon completion of Indeed CM Server Installation Wizard, if the corresponding checkbox is activated.

However, you also can run the Wizard manually at any time (*Start - All Programs - Indeed*).



In table features the sections of Setup Wizard, along with description of their parameters.

Indeed CM Setup Wizard sections and their description.

Section	Description
Before starting work	This contains information about the purpose and features of Indeed CM Setup Wizard.
Restore configuration	This allows to load a backup copy of Indeed CM configuration.
System features <ul style="list-style-type: none"> • Common features • Event Log • Microsoft CA • AirKey Enterprise • Client Agent 	<p>Configuration of internal parameters of Indeed CM web applications:</p> <p>Management Console</p> <ul style="list-style-type: none"> • Display system summary • Enable custom log <div style="border: 1px solid red; padding: 5px; margin: 10px 0;"> <p> The custom log is implemented only for system configuration using the Data Storage in Microsoft SQL and PostgreSQL.</p> </div> <ul style="list-style-type: none"> • Own organizational structure • Integration with Indeed Access Manager • User's password reset in Active Directory • Viewing card SO PIN • Publishing certificates in the file storage <div style="border: 1px solid red; padding: 5px; margin: 10px 0;"> <p> Publishing certificates is not supported for mounted network drives. Set the path to the file storage in the format:</p> <p style="margin-left: 20px;">\\Workstation name\Network directory name</p> </div> <p>Self-Service</p> <ul style="list-style-type: none"> • Viewing card content • Create TPM Virtual Smart Card (VSC) • Enrolling Windows Hello for Business (WHfB) • Enable downloads <hr/> <p>Event Log:</p> <ul style="list-style-type: none"> • Define the user attribute to search in the Event Log. Default value: CN (Common name) • Configuration of connection to the Unified Event Log for several Indeed CM servers <hr/> <p>Microsoft CA: Configure settings for working with Microsoft Certification Authority.</p> <p>AirKey Enterprise: Configuring integration with Indeed AirKey Enterprise virtual smart card server.</p> <p>Client Agent: Configuring Indeed CM Agent.</p>

<p>User catalog</p> <ul style="list-style-type: none"> • Active Directory • Tracked attributes 	<p>Definition of the system user catalog.</p> <p>Definition user attributes when changing which requires a certificate update.</p> <p>The list of tracked user attributes in the settings of Microsoft CA certificate templates includes the following attributes by default:</p> <ul style="list-style-type: none"> • Common name • E-mail • User principal name <div style="border: 1px solid red; padding: 5px; margin-top: 10px;"> <p> Tracking changes in user attributes is available for attributes from the Subject and Subject Alternative Name fields of the certificate.</p> </div>
<p>Access control</p> <ul style="list-style-type: none"> • Role administrator 	<p>Definition an account to initially configure user privileges in the Roles section of Indeed CM Management Console.</p> <div style="border: 1px solid red; padding: 5px; margin-top: 10px;"> <p> The specified account must have a User Principal Name (UPN) and be included in the specified user catalog of the system.</p> </div>
<p>Database</p> <ul style="list-style-type: none"> • Active Directory • Microsoft SQL • PostgreSQL • Encryption key 	<p>Definition of system data storage and encryption algorithm.</p> <p>Creation of encryption key or backup copy or recovery of key from backup.</p> <p>Parameters of connection to the storage are defined according to the selected type.</p>

Card Monitor service

The Card Monitor service is intended for control of smart card usage. The service performs:

- Revocation of expired temporary cards
- Deactivation (optional) of cards and revocation of certificates for the users whose Active Directory accounts have been disabled
- Removing accounts (optional) from the Indeed CM user catalog whose Active Directory accounts have been disabled
- Revocation and withdrawal (optional) of cards of users whose accounts have been removed from the Indeed CM user catalog
- Setting/resetting a card content status (about to expire/expired)
- Update of card contents

 If the card was updated through the Agent Indeed CM without automatic approval of certificates by the CA operator.

- Event registration **There is no connection from the agent for a long time** in the system log
- Sending of the following email notifications to the system administrators and users:
 - User certificate expiration
 - Card issuance approval/rejection
 - Approval or rejection of renewal for certificates
 - Approval or rejection of card replacement
 - Change of Indeed CM policy applying to user
 - Changing user attributes in the user directory

 To perform tasks for the regular launch of the Card Monitor service, the account specified in the setup wizard must be in the **Administrators group** on the Indeed CM server and have permission to **Log on as a batch job**.

For the Card Monitor service to work correctly, create a service role (say, Card Monitor service) in **Roles** section, include an account in it, on behalf of which Card Monitor will work with and define the following privileges for named role:

- Disabling card
- Updating card
- Revoking card
- Cleaning card
- Unassigning card
- Removing card
- Removing AirKey
- Removing record from custom log

 If integration with AirKey Enterprise is configured, then set privileges for working with these virtual smart cards.

Confirmation	<p>This contains combined information on settings of all Wizard sections, as well as an opportunity to create a backup copy of Indeed CM configuration.</p> <p>When installed Indeed CM Server for the first time, set up the required parameters and make a backup copy of those (option Backup current configuration settings in the Confirmation section).</p> <p>The backup copy of Indeed CM settings contains all the parameters defined for all services during installation, as well as encryption key and algorithm. To use the backup to deploy new Indeed CM servers, specify it in the Restore configuration section of Setup Wizard.</p> <div data-bbox="395 526 1436 683" style="border: 1px solid red; padding: 5px;"><p> The backup also contains the data of service accounts (the one for user directory and for data storage), encryption key and algorithm. Be sure to store the backup copy file in a safe place.</p></div>
Results	<p>This displays the Wizard progress in writing the defined values to configuration files of Indeed CM services.</p> <p>After the Setup Wizard is complete, the defined values of all parameters are written to the configuration files of all applications and encrypted. Encryption is performed using the Microsoft .NET (NetFramework ConfigurationKey) key. Encryption algorithm is RSA.</p>