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DISTRIBUTION SOLUTIONS

# ABB Ability™ Condition Monitoring for electrical systems – CMES

## User Management Quick Guide



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jquery version	3.2.1	Copyright JS Foundation and other contributors, <a href="https://js.foundation/">https://js.foundation/</a>
jqueryui.com	1.12.1	Copyright JS Foundation and other contributors, exact contribution history, see <a href="https://github.com/jquery/jquery">https://github.com/jquery/jquery</a>
perfect scrollbar	1.1.0	The MIT License (MIT) Copyright (c) 2012-2017 Hyunje Jun and other contributors
selectric	1.13.0	Copyright (c) 2016 Leonardo Santos

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# 1. General

## 1.1. Target Group

The MNS Digital Edge device is the hardware platform for **ABB Ability™ Condition Monitoring for electrical systems** (in the following 'CMES').

Audiences of this manual are service technicians and switchgear operators on site. This document describes the communication and user interfaces of the MNS Digital Edge device and CMES.

The reader shall be familiar with the terms and concept of ABB MNS Low Voltage Switchgear.

The reader shall be familiar with the terms and concept of Microsoft Windows®.

## 1.2. Terminology

List of the terms, acronyms, abbreviations and definitions that the document uses.

Abbreviation	Term	Description
CMES		Abbreviation for on-premise ABB Ability™ Condition Monitoring for electrical systems
	MNS Digital Edge	Hardware platform for on-premise Edge computing, including CMES and cloud connectivity
MNS		Modular Low Voltage Switchgear family from ABB
	Windows OS	Windows Operating System. Windows® is a registered trademark of Microsoft Corporation. All other trademarks are the property of their respective owners.

## 1.3. Related Documentation

[1] 1TGC908002M0203 ABB Ability Condition Monitoring for electrical systems – CMES - User Manual

## 1.4. Related System Version

The content of this document is related to MNS Digital Release 2.0

## 2. Introduction

This document provides an introduction on how to setup or change login credentials for the user management of the CMES.

### 2.1. Default settings

The MNS Digital Edge is provided from ABB with the custom specific project installed. Within project specification the customer defines the number of users which have access to CMES and the respective user roles. In this case ABB will set-up the CMES with the agreed user accounts. After delivery it's mandatory to change at least the user passwords.

In case the users and roles are not defined from project, 2 default users are installed: Administrator and Operator.

This is also valid when the MNS Digital Edge is ordered as spare part.

Default login credentials are:

#### Administrator

**User name:** EdgeGwAdmin

**Password:** PleaseChangeMe

#### Operator

**User name:** EdgeGwUser

**Password:** PleaseChangeMe

For cyber security reason, it's mandatory to change the password after installation of the MNS Digital Edge.

ABB will take no liability caused by using the default passwords.

Please contact your IT department about details of password management and cyber security measures in your company. A process for regular update of anti-virus software needs to be implemented.

By default, the Windows Defender is installed and activated. Please ensure to update the Windows OS and the anti-virus software on regular basis.

## 3. Configuring the User Management for the CMES

This chapter explains possible adaptations of the user management for users of the pre-installed MNS Digital Edge:

- Create a new user
- Adding a new user
- Changing users
- Changing passwords by Windows remote desktop application.

### 3.1. Creating a New User for CMES

To create a new user, you have to login as administrator. The following steps are describing the workflow how to create a new user with the role “operator”. An operator has the permissions to acknowledge alarms. It is also described how to give a user the role “Read Only” at the crucial steps. This user has no permission to acknowledge alarms.

Step	Actions	Remark
1	<ul style="list-style-type: none"> <li>• Login by remote desktop<sup>1</sup> as administrator</li> </ul>	The password is provided from your ABB contact together with the MNS Digital Edge.
2	<ul style="list-style-type: none"> <li>• Right click windows symbol “Computer Management”-Local Users and Groups”</li> </ul>	

<sup>1</sup>To access the windows operating system alternatively a monitor, keypad and mouse can be connected to the MNS Digital Edge.

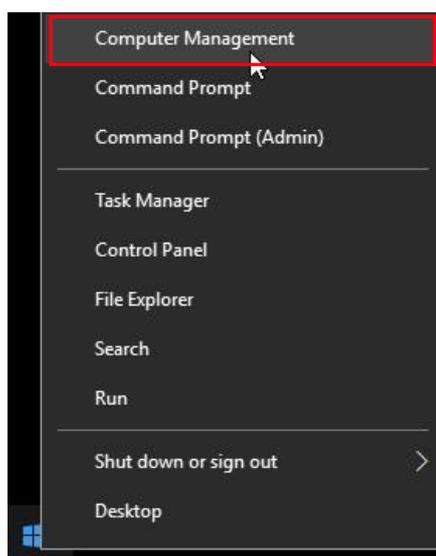


Figure 1– Select Computer Management

The computer management window will open

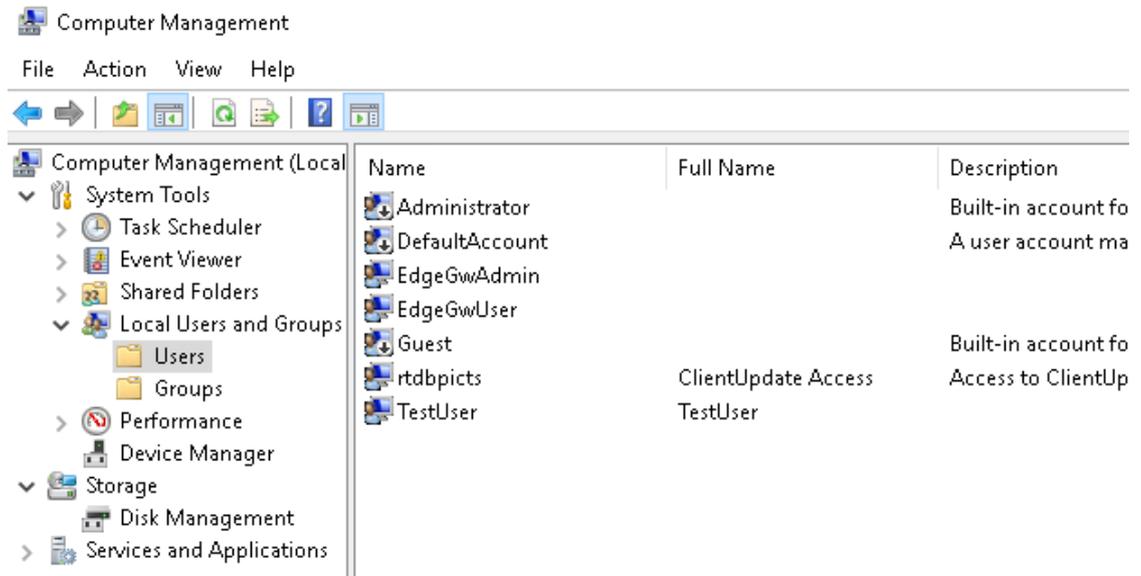


Figure 2– Computer Management Window

Step	Actions	Remark
3	<ul style="list-style-type: none"> <li>• Right Click at “Users” – “New User...”</li> <li>• Enter new user name, password, <b>Pass-word never expires</b> and press Create and Close</li> </ul>	

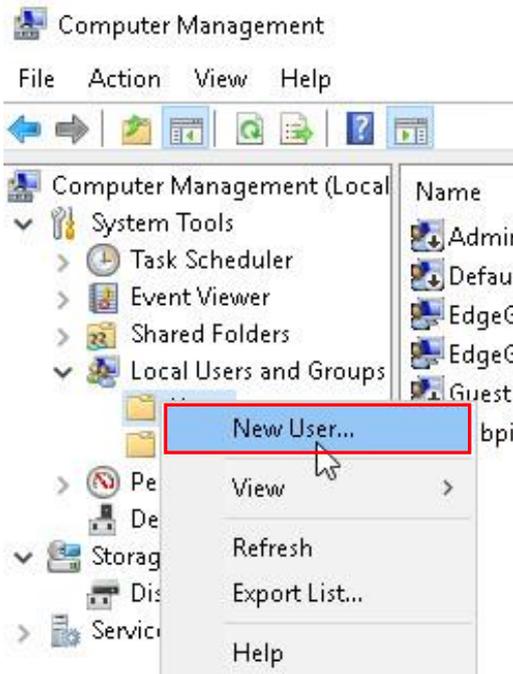


Figure 3– Select “New User”

**Figure 4–** Add New User

Step	Actions	Remark
4	<ul style="list-style-type: none"> <li>• Right click at “NewUser” and the properties page opens</li> <li>• Select tab “Member Of”</li> <li>• Press Add</li> <li>• Enter “RTDB-operator” or “RTDB-readonly”</li> <li>• Press “check names” and Ok</li> </ul>	<p>Add user to rtdb-operator group</p> <p>Creates a new user with role “Operator”</p> <p>Creates a new user with role “read only”</p>

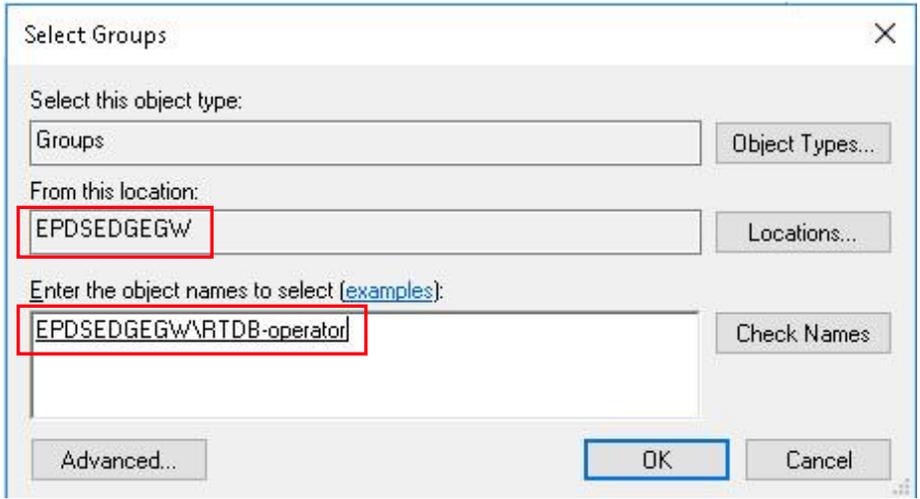


Figure 5– Add user to “RTDB-operator” group

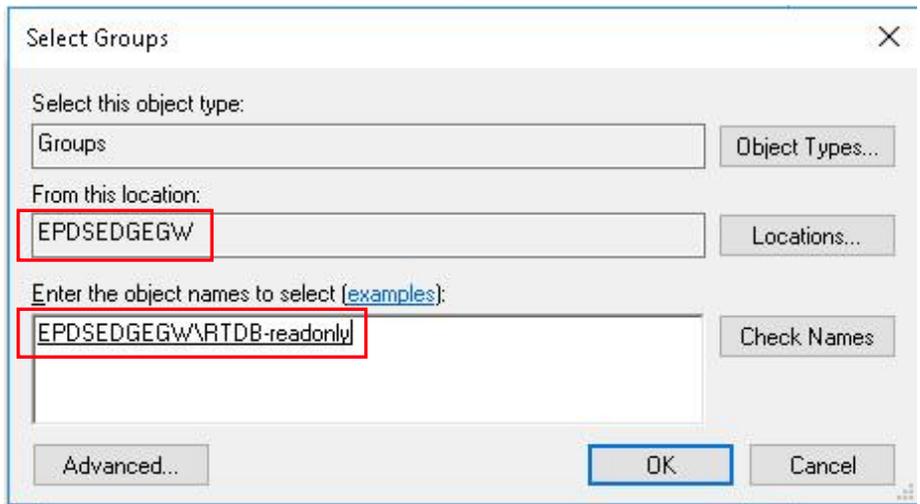
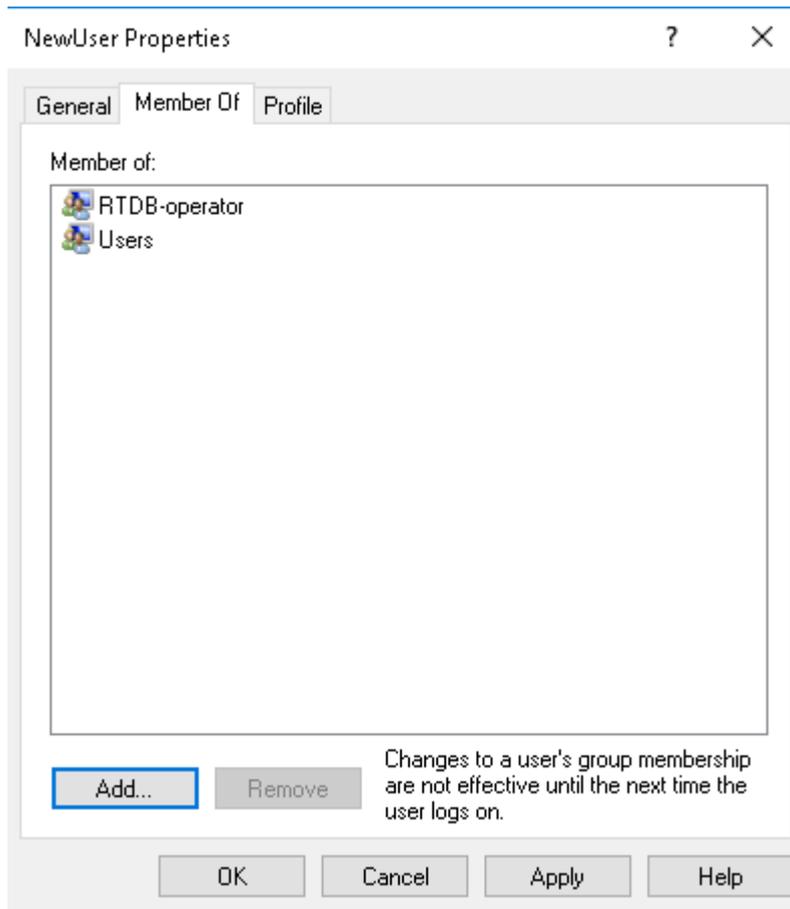


Figure 6– Add user to "RTDB-readonly" group

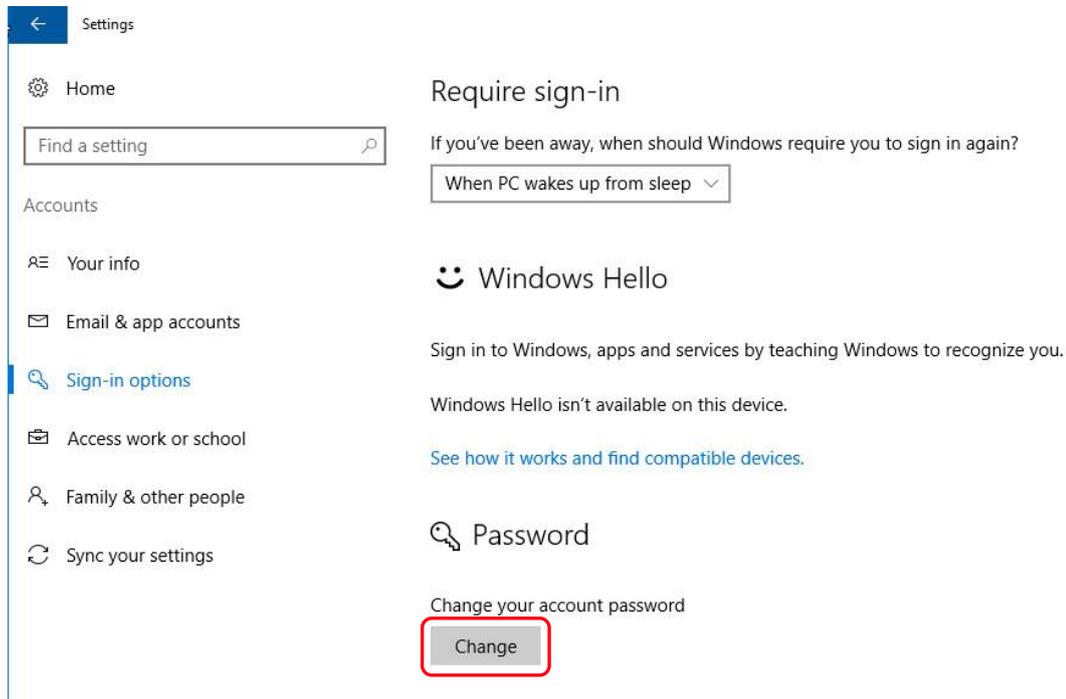


**Figure 7–** User added to “RTDB-operator” group

### 3.2. Changing an existing User Password

Due to cyber security reasons a user should change its own password from time to time. This could be done in following way:

Step	Actions	Remark
1	<ul style="list-style-type: none"> <li>• Login by remote desktop with user name and password</li> </ul>	User login– Before user can login the administrator has to add user to Remote Desktop Users (Right click windows symbol – Computer Management – Local Users and Groups – Groups - Remote Desktop Users).
2	<ul style="list-style-type: none"> <li>• Left click windows symbol – “Settings” – “Accounts” – Sign-in options”</li> <li>• Section Password – Press “Change” button</li> <li>• Enter current password, new password twice and hint</li> <li>• Press Next</li> <li>• Press Finish</li> </ul>	Change current password, see following explanation about password complexity requirements



**Figure 8–** User Changes Own Password

## Password Complexity Rules and Password History

The password has to contain characters from three of the following categories:

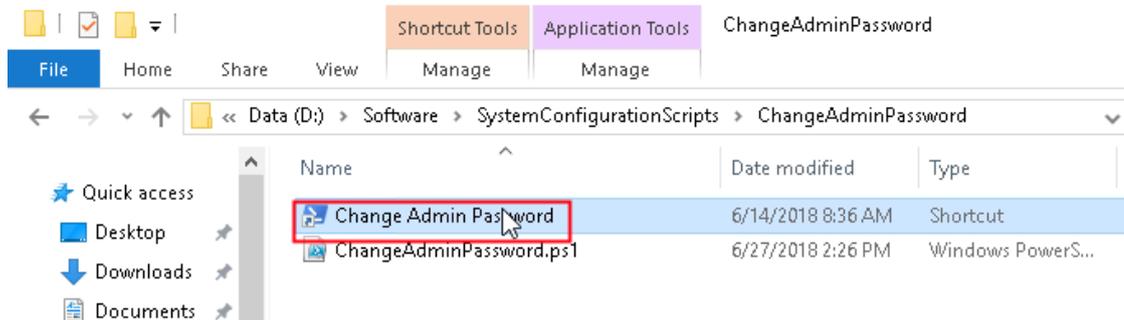
- Uppercase letters of European languages (A through Z, with diacritic marks, Greek and Cyrillic characters)
- Lowercase letters of European languages (a through z, sharp-s, with diacritic marks, Greek and Cyrillic characters)
- Base 10 digits (0 through 9)
- Non-alphanumeric characters (special characters): (~!@#\$%^&\* \_-+= `|\(){}[];'"<>.,?/) Currency symbols such as the Euro or British Pound are not counted as special characters for this policy setting.
- Any Unicode character that is categorized as an alphabetic character but is not uppercase or lowercase. This includes Unicode characters from Asian languages

A new password is only accepted by Windows when it differs from four previous passwords.

### 3.3. Changing the Password of Admin User

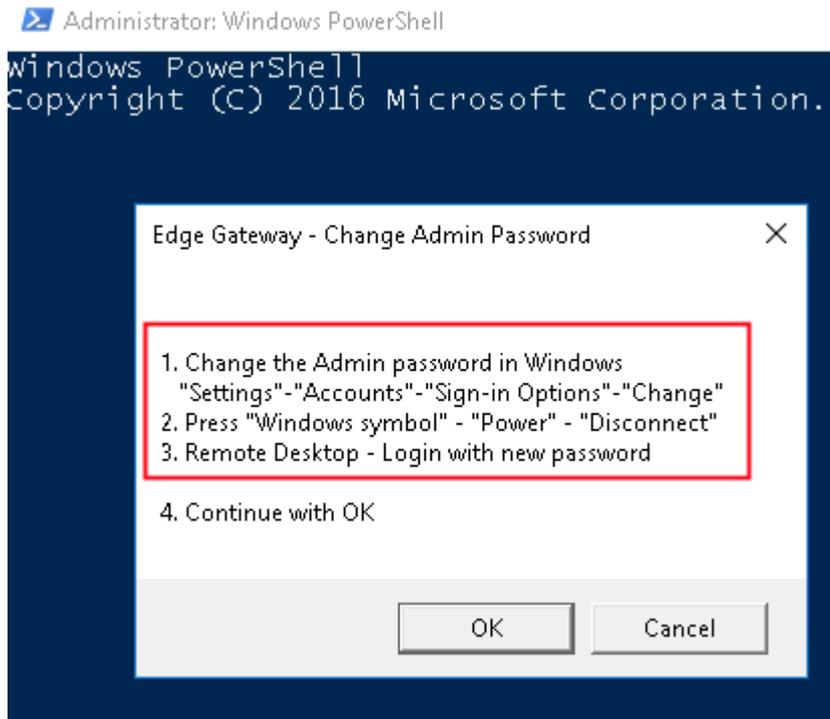
This chapter explains how to change password of the administrator user.

Step	Actions	Remark
1	<ul style="list-style-type: none"> <li>• Login by remote desktop with admin user name and password</li> </ul> <p>Default is: EdgeGwAdmin- "PleaseChangeMe"</p>	<p>The name of the user account has been provided as a setup parameter during the installation.</p> <p>The admin user must have administrator privileges (or other privileges for running as a service and accessing the database tables locally).</p>
2	<ul style="list-style-type: none"> <li>• Open Windows Explorer</li> <li>• Goto folder "D:\Software\SystemConfigurationScripts\ChangeAdminPassword"</li> </ul>	
3	<ul style="list-style-type: none"> <li>• Double click "Change Admin Password" and continue with Yes</li> </ul>	



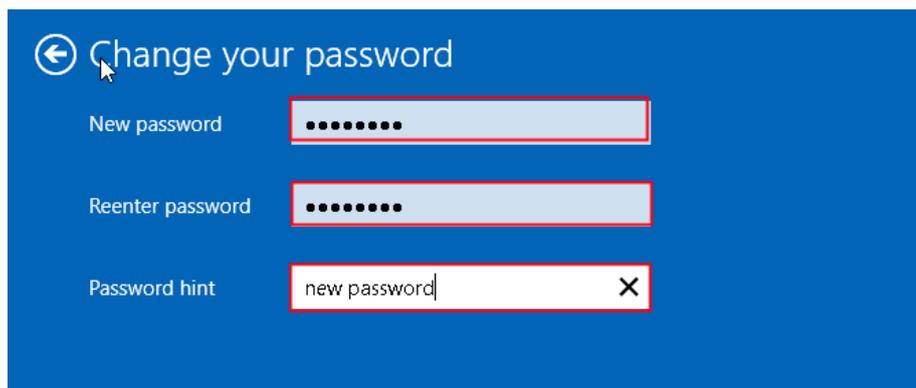
**Figure 9–** Double Click - Change Password

4	<ul style="list-style-type: none"> <li>• Wait until following dialog pops up</li> </ul>	
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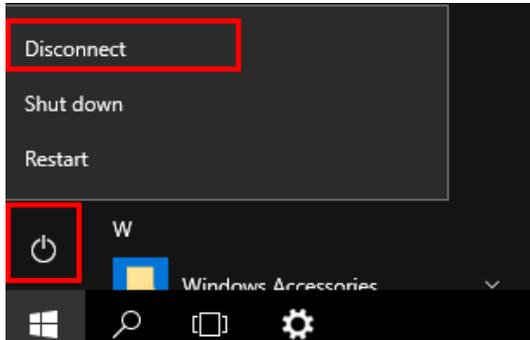
**Figure 10** – Follow steps 1... 3 according following description

- 
- 5 • Change the Admin password, Left mouse click at "Windows symbol" - "Settings" - "Accounts" - "Sign-in Options" - "Change"
- 
- 6 • Enter new password Change current password, see in chapter 3.2 explanation about password complexity
- 



**Figure 11** – Enter new password

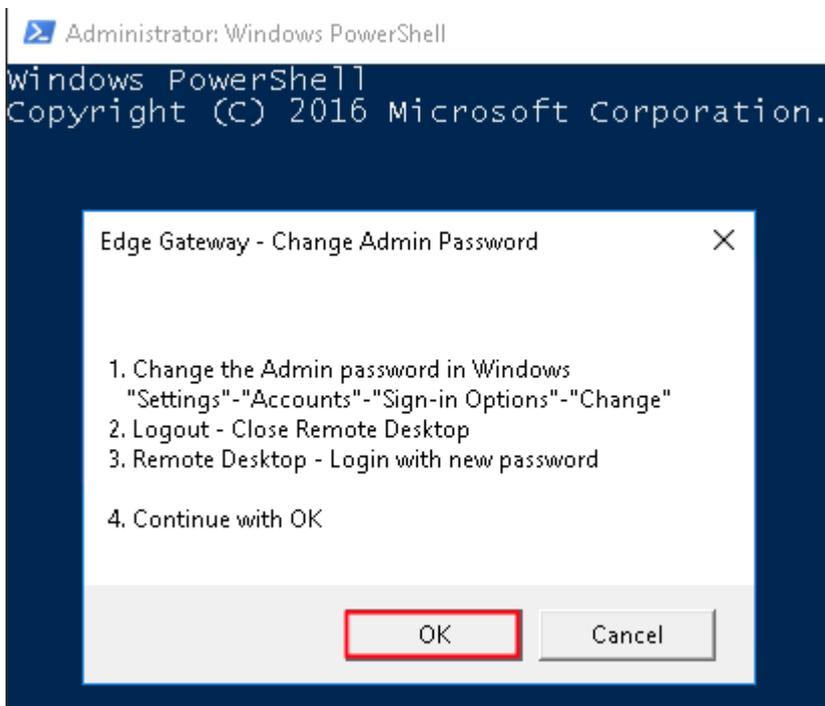
- 
- 7
- End your connection to the computer – **Do not reboot or logout!**  
Press “Windows Symbol” - “Power” -  
“Disconnect”
- 



**Figure 12** –Disconnect Remote Desktop

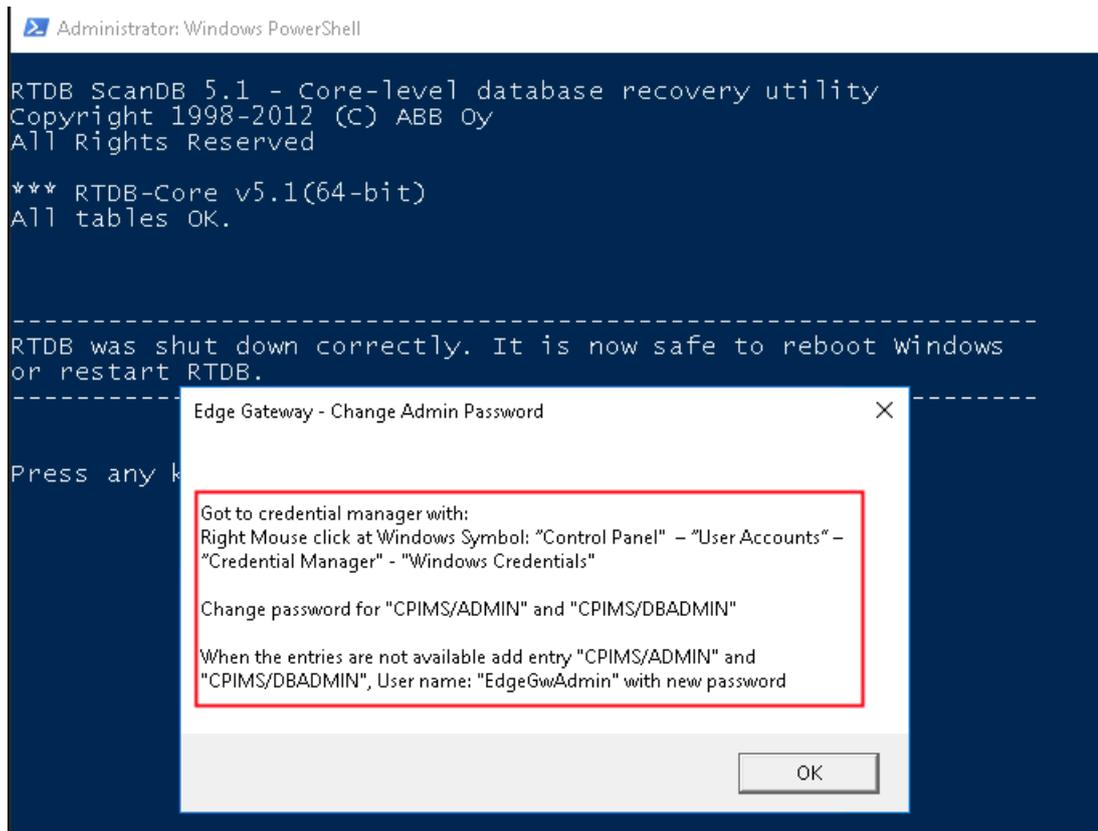
- 
- 8
- Login by remote desktop with admin  
user name “EdgeGwAdmin” and new  
password
- 

- 9
- Press Ok See next picture
- 



**Figure 13** – Press OK

- 
- 10
- Wait until following dialog pops up
-

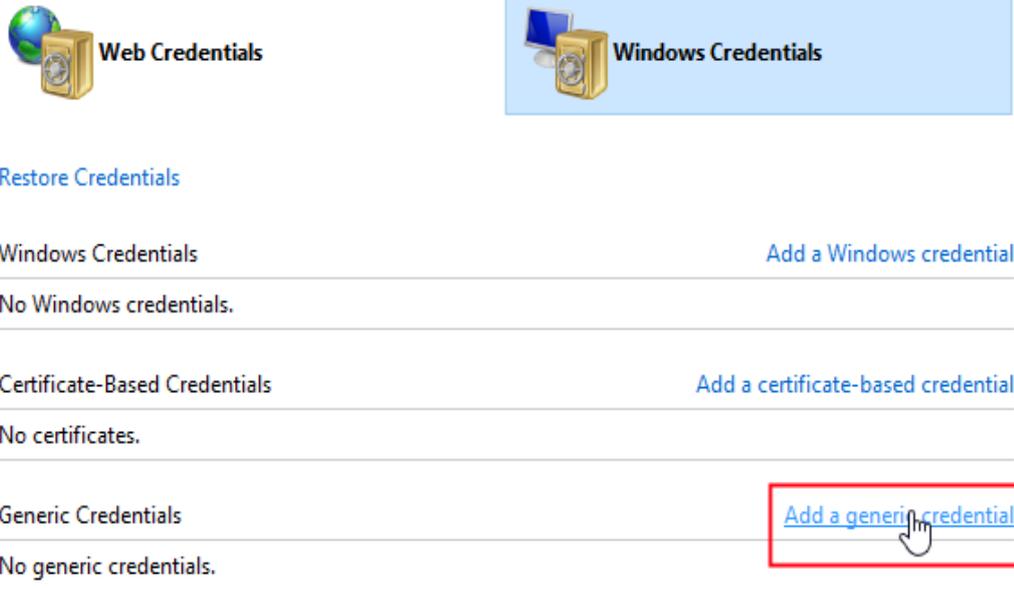


**Figure 14** – Follow the steps, see detailed description below

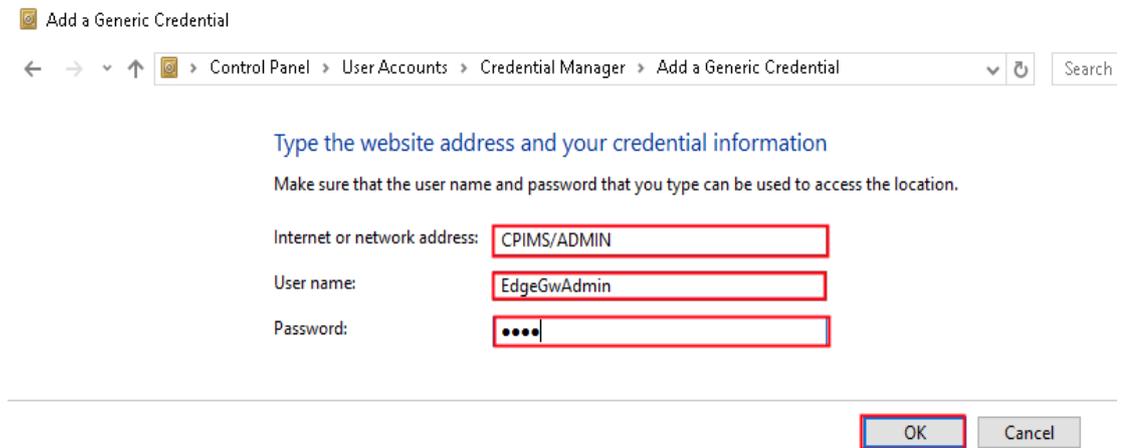
- 
- 11
- Right Mouse click at Windows Symbol – “Control Panel” – “User Accounts” – “Credential Manager” – “Windows credentials tab – Generic Credentials”
  - Change password of admin user in the Windows vault entry “CPIMS/ADMIN” and CPIMS/DBADMIN”
  - When entries are not available add generic credential “CPIMS/ADMIN” and “CPIMS/DBADMIN” with new admin password
-

## Manage your credentials

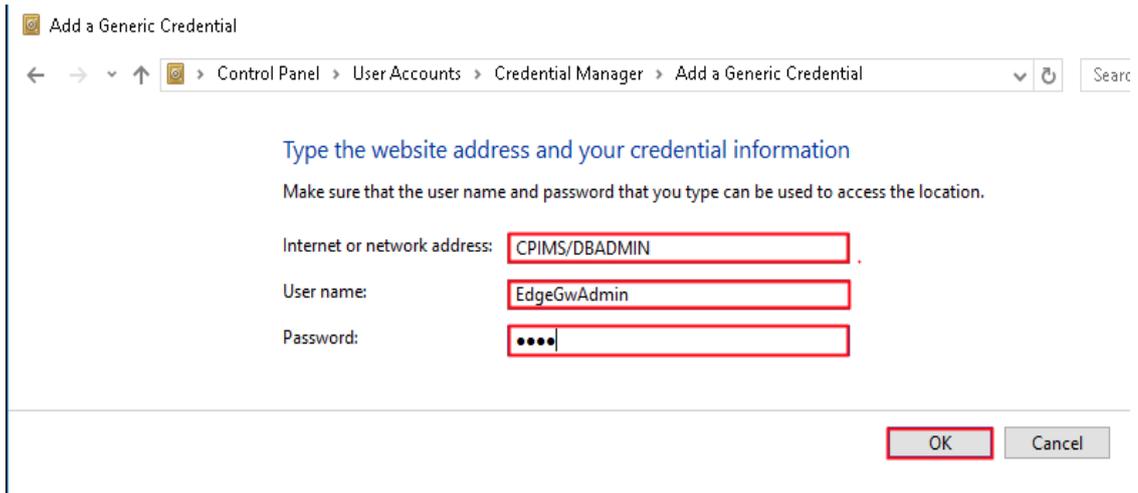
View and delete your saved logon information for websites, connected applications and networks.



**Figure 15**– Generic Credential – Add a generic credential

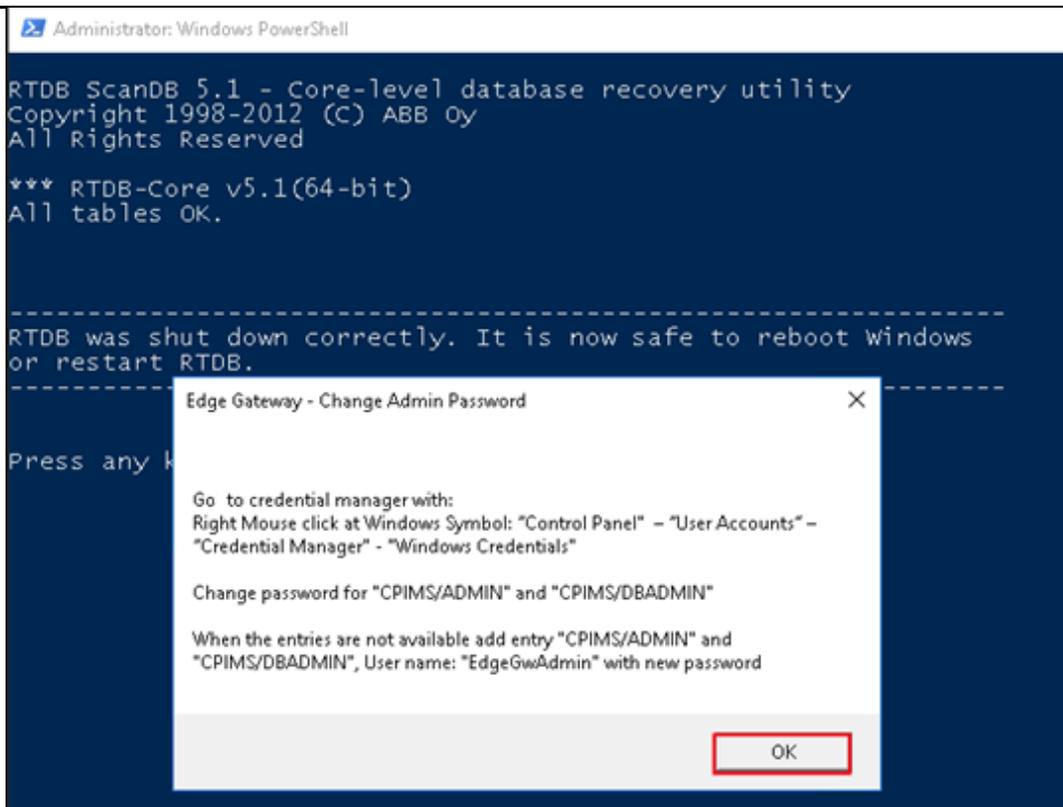


**Figure 16**– Add “CPIMS/ADMIN” with new admin password



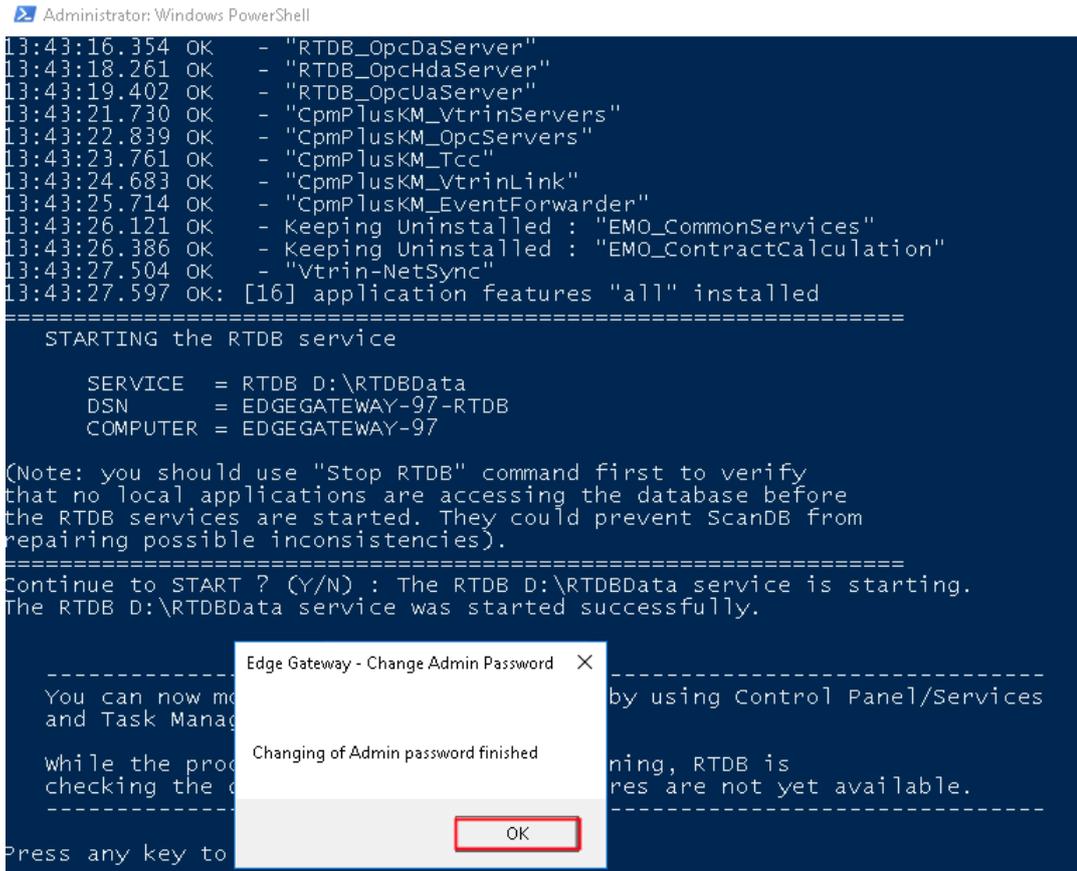
**Figure 17**– Add “CPIMS/DBADMIN” with new admin password

- 
- 12 • Press OK



**Figure 18**– Press OK to continue after entering new user credentials

- 
- 13 • Wait until following windows comes up Finish password change. and press OK
-



**Figure 19**– Changing of admin password finished – Press OK

If the MNS Digital Edge is connected to the ABB Ability Cloud you must supply the password also for the NetSync Server synchronizing the data with the cloud:

Step	Actions	Remark
14	<ul style="list-style-type: none"> <li>• Press (right mouse click) “Windows Symbol” - “Computer Management” “Disconnect”</li> <li>• Select “Services and Applications” – “Services”</li> <li>• Search for an entry starting with “Vtrin-NetSync ....”</li> <li>• Open “Properties” – “Log On”</li> <li>• Enter new Password to field “Password” and “Confirm Password”</li> <li>• Close Dialogue with “Ok” and close program</li> </ul>	The NetSync Server needs the credential of the CMES admin to read the local database and credentials.

## 4. Network connectivity

Since the MNS Digital Edge is connected to an Ethernet network it is customer's sole responsibility to provide and continuously ensure a secure connection between the MNS Digital Edge and customer network or any other network (as the case may be).

The MNS Digital Edge has following service ports open on the integrated Ethernet interfaces:

Port	Service	Purpose
443	https / wss	WEB user-interface of ABB Ability™ Condition Monitoring for electrical systems - CMES
3389	RDP	Windows remote login, e.g. used for the above described user password management

Customer shall establish and maintain appropriate measures (such as but not limited to the installation of firewalls, application of authentication measures, encryption of data, installation of antivirus programs, etc.) to protect the MNS Digital Edge including CMES, the network, its system and interfaces against any kind of security breaches, unauthorized access, interference, intrusion, leakage and/or theft of data or information.

ABB Ltd. and its affiliates are not liable for damages and/or losses related to such security breaches, unauthorized access, interference, intrusion, leakage and/or theft of data or information.

## 5. Troubleshooting

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Abbreviation	Solution
No access to CMES web page	Check if the correct IP address has been entered in the address bar of the web browser.
	Check if the MNS Digital Edge is powered on and no fault is indicated by the front LEDs.
	Ping the IP address of the MNS Digital Edge from the Web client PC
No login possible	Check if correct user name and password has been entered

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# Revision History

Rev.	Page	Change Description	Date / Initial
M0201	all	Initial release	2018-04-11 EPDS/KGM
M0202	8-15	Complexity Rules for passwords, Changing of administrator password using power shell script	2018-11-19 EPDS/JK



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