Central Reporting & Management System
-CRMS suite V2-

VER 1.0

(REVISION - 0)

MASER ELECTRONICS PVT LTD

Mumbai, India

CONTENTS

INTRODUCTION:

The following pages will guide the user/operator how to install the software and introduce the various panels, buttons and basic operative functions/controls of the GUI (Graphical user interface).

Note: Certain features described here require service or administrative level passwords.
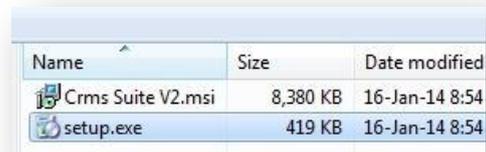
1. SOFTWARE INSTALLATION:

Note: CRMS V2 requires *Microsoft .NET framework 4 client profile*. If it is not preinstalled setup will try to download from the Microsoft online repository.
If your PC is not connected to the internet install it using the Microsoft .NET framework 4 client profile setup on the setup CD-ROM.

→ Insert the installation disc into the CD-drive. Browse the drive to view the contents of the disc.

Name	Size	Date modified
Crms Suite V2.msi	8,380 KB	16-Jan-14 8:54
setup.exe	419 KB	16-Jan-14 8:54

(1-1) RUN SETUP

→ Doulbe click 'setup.exe'. (or select and press 'enter')

(1-2) INSTALLATION SCREEN

→ Press 'Next' to proceed with the installation.

Welcome to the Crms Suite V2 Setup Wizard

The installer will guide you through the steps required to install Crms Suite V2 on your computer.

WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.

(1-3) CHOOSE INSTALLATION DIRECTORY

→ Press 'Next' to proceed with default directory.

Note: Browse to choose the installation directory if you do not want the default directory.

Select Installation Folder

The installer will install Crms Suite V2 to the following folder.

To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse".

Folder:
C:\Program Files (x86)\MASER Electronics Pvt Ltd\Crms Suite V2\

Install Crms Suite V2 for yourself, or for anyone who uses this computer:

○ Everyone
● Just me

(1-4) CONFIRM INSTALLATION
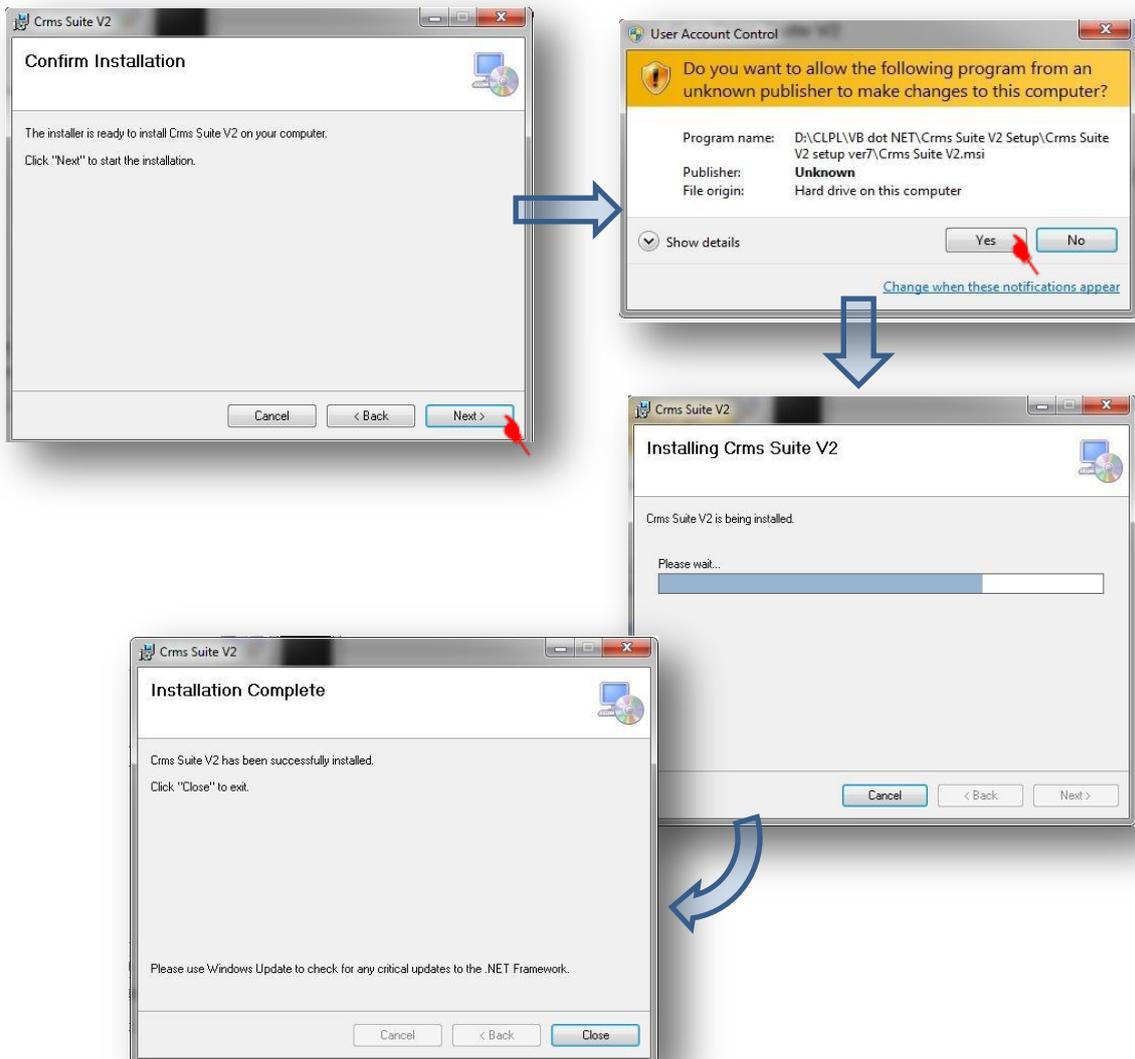
If all goes well you will see → shortcut on the desktop.

Also in → Start → All   Programs

(1-6) LAUNCH PROGRAM

→ Click to launch the program. (marked   above)

2. GUI - SNAPSHOT:
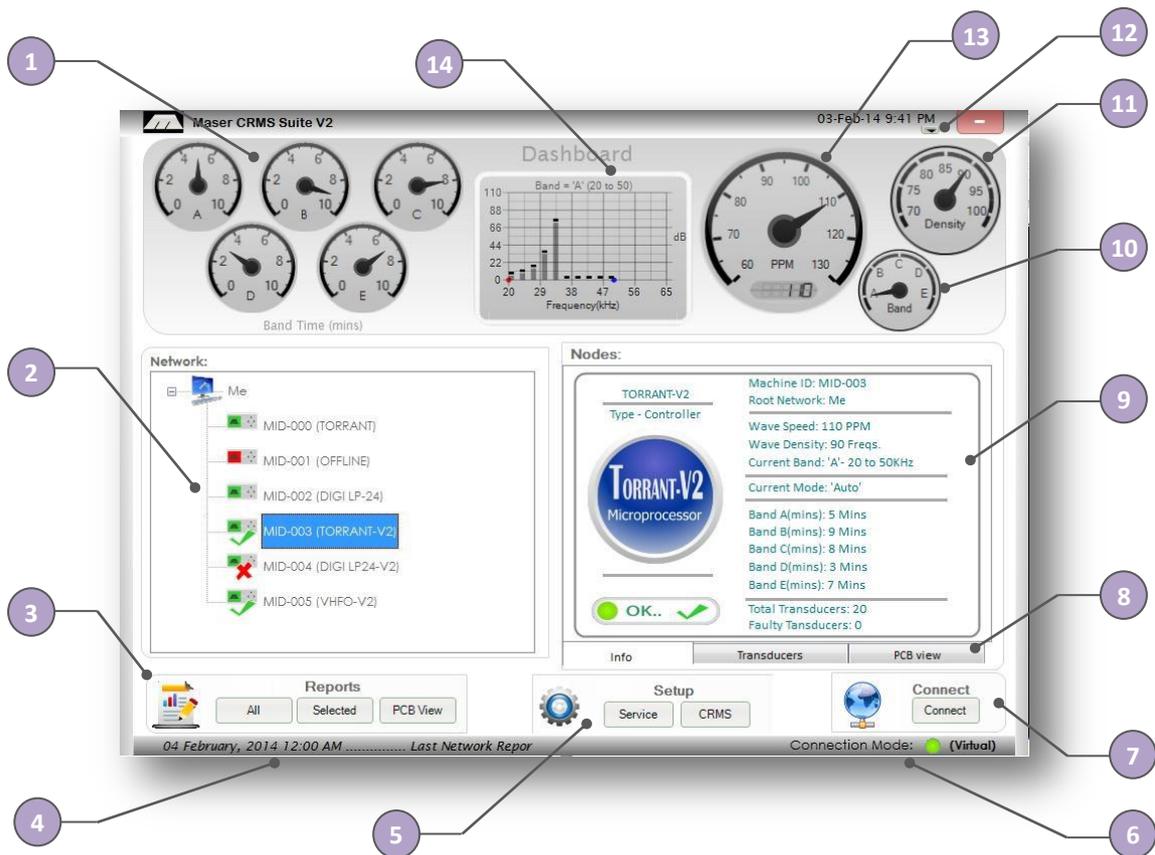
1 Band time dials for selected	**8** Info / Transducers / PCB view tabs
2 Machine network tree view	**9** Selected machine info
3 Report panel	**10** Current band dial for selected machine
4 Last/Next network report date scroll	**11** Density dial for selected machine
5 System and CRMS setting panel	**12** Dashboard and buttons user selectable colors/themes
6 Network Connection status (Offline / online / virtual)	**13** Speed (PPM) dial for selected machine
7 Network connection	**14** Frequency animation for selected machine parameters

3. CONNECT DIALOG WINDOW:

→ Once the application is launched the connect dialog will appear along with the main application window.

Note: If there is no activity associated with the connection dialog for 10 (default) seconds the application will try to connect to the default/last successful port setting.
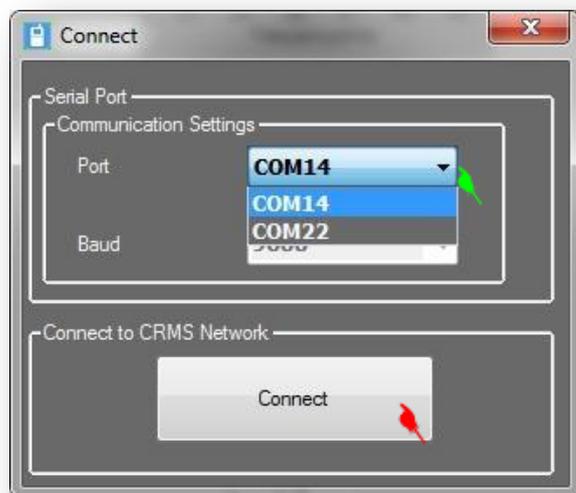
(3-1) SET COMMUNICATION PORT (COM PORT)

→ Change port setting (marked)   to the port number that CRS/BMS hardware is associated with.

Note: To find out which port number CRS/BMS hardware is connected to-
→Right click 'My computer icon' →Click 'Properties' →
System Properties Dialog will pop up.
→Choose 'Hardware' tab → Click 'Device Manager'
Device Manager dialog should pop up.
Expand the Port (COM & LPT) tree as shown below.

(3-2) CONNECT TO PORT

→ Now press 'Connect' button to establish a connection.

-If the connection is successful the Connect window will automatically close.

-The system tray icon and taskbar of the main application window will go 'green' from 'red' as shown below.

Note:

- In case the chosen port does not exist or is already open (another application is using the port) an error notification will pop up.
- Make sure the chosen port is the one the CRS/BMS hardware is connected.
- In case of a USB to Serial converter, changing the USB port may also change the serial port number.

(3-3) PING MACHINES

→ Once the selected port is opened the application queries each and every machine within the range. Depending upon the response the network machine list is populated. See below.

4. DASHBOARD PANEL OVERVIEW:

→ Panels within the main application (see GUI-Snapshot) window are described below.

(4-1) NETWORK MACHINE TREE / NODES - PANEL

→ This panel shows the tree view of all individual machines on the network. Also indicates

Legend:

→ Machine offline

→ Machine online

→ Transducers/ drivers 'OK'

→ Transducers/ drivers 'Faulty'

the online/offline status, health status of each machine.
→ Selecting a machine on the network tree (by clicking a machine within the tree) displays the selected machine details on the dials dashboard / info / transducer / pcb view depending on the tab chosen.

(4-2) DASHBOARD DIALS: (SELECTED MACHINE ON NETWORK TREE)

Time duration of bands (A,B,C,D,E)

Animation showing frequency scroll according to current band

Current wave speed (Pulses per minute)

Current wave density

Current band

(4-3) INFO – TAB: (SELECTED MACHINE ON NETWORK TREE)

Nodes:

TORRANT-V2

Type - Controller

TORRANT-V2
Microprocessor

✖ Driver Failure...

Machine ID: MID-003
Root Network: Me

Wave Speed: 80 PPM
Wave Density: 70 Freqs.
Current Band: 'E'- 34 to 62KHz

Current Mode: 'Manual'

Band A(mins): 7 Mins
Band B(mins): 4 Mins
Band C(mins): 7 Mins
Band D(mins): 4 Mins
Band E(mins): 5 Mins

Total Transducers: 20
Faulty Tansducers: 2

| Info | Transducers | PCB view |

- Machine name & type
- Machine brand image
- Machine status / health
- Machine ID
- Machine Parameters
- Total transducers / Total Faulty

(4-4) TRANSDUCER / DRIVER TAB: (SELECTED MACHINE ON NETWORK TREE)

Nodes:

Tran/Drv-01   Tran/Drv-08   Tran/Drv-15
Tran/Drv-02   Tran/Drv-09   Tran/Drv-16
Tran/Drv-03   Tran/Drv-10   Tran/Drv-17
Tran/Drv-04   Tran/Drv-11   Tran/Drv-18
Tran/Drv-05   Tran/Drv-12   Tran/Drv-19
Tran/Drv-06   Tran/Drv-13   Tran/Drv-20
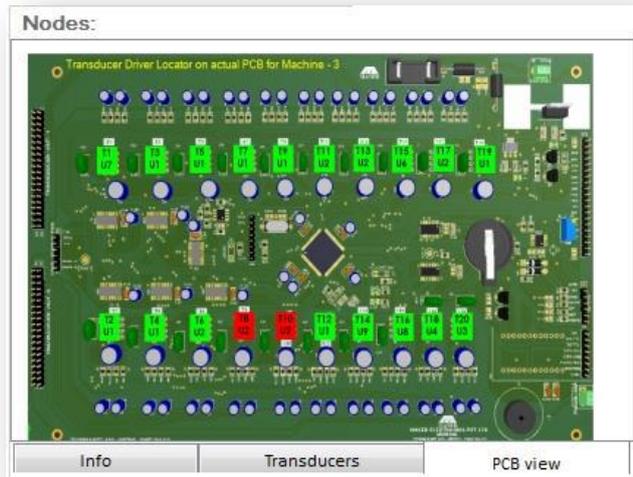Tran/Drv-07   Tran/Drv-14

| Info | Transducers | PCB view |

→ Transducer/ driver 'OK'

→ Transducer / driver 'Faulty'

(4-5) PCB VIEW – TAB: (SELECTED MACHINE ON NETWORK TREE)

→ Transducer/ driver 'OK'

→ Transducer / driver 'Faulty'

(Helps to locate exact position of faulty driver on PCB)

5. ONLINE REPORTS PANEL:

Note: Gives updated report if network / machine is pinged.

(5-1) CONSOLIDATED PDF REPORT FOR ALL MACHINE ON NETWORK

Consolidated Report - (MID-000 to MID-005)

Date: 18-2-2014
Time: 08:09:59 PM

Client:

Name: enter name

Client Site:

Address: enter address

Network:

PC Name: SOHLAPI

Displayed - MID-000 to MID-005:

Sr. No.	Machine ID	Link Status	Product Icon	Product Name	Health Status	Total Drivers	Faulty Drivers	PCB Thumb
1	MID-000	Online…	TORRANT-V2	TORRANT-V2 (022)	OK..	20	0	
2	MID-001	Online…	DIGI LP24-V2	DIGI LP24-V2 (031)	OK..	1	0	
3	MID-002	Online…	VHFO-V2	VHFO-V2 (060)	OK..	1	0	
4	MID-003	Online…	TORRANT-V2	TORRANT-V2 (022)	Driver Failure…	20	2	
5	MID-004	Online…	DIGI LP24-V2	DIGI LP24-V2 (031)	OK..	1	0	
6	MID-005	Online…	VHFO-V2	VHFO-V2 (060)	OK..	1	0	

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(5-2) PDF REPORT FOR SELECTED MACHINE ON NETWORK

(5-3) DISPLAY FULL PCB VIEW OF SELECTED MACHINE ON NETWORK

Reports

All · Selected · PCB View

T1 U7 (green) → Transducer/ driver 'OK'
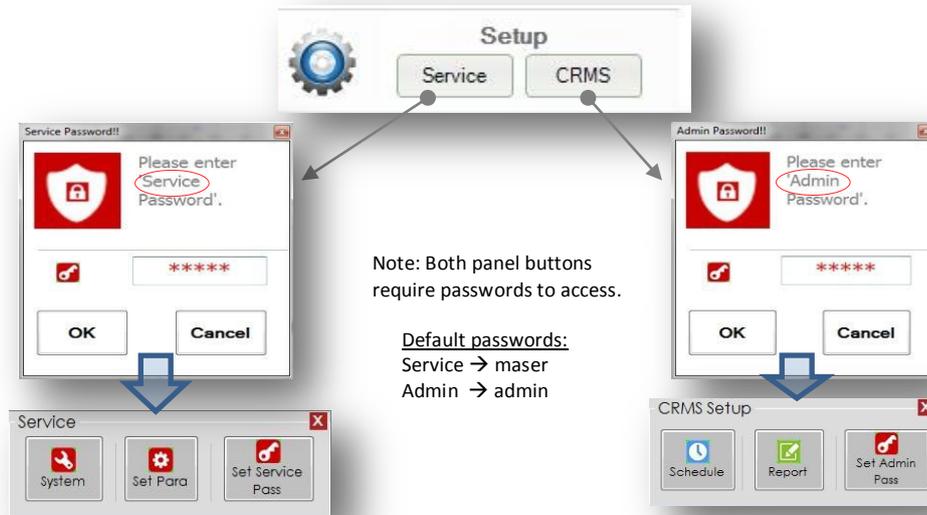
T1 U7 (red) → Transducer / driver 'Faulty'

(Helps to locate exact position of faulty driver on PCB)
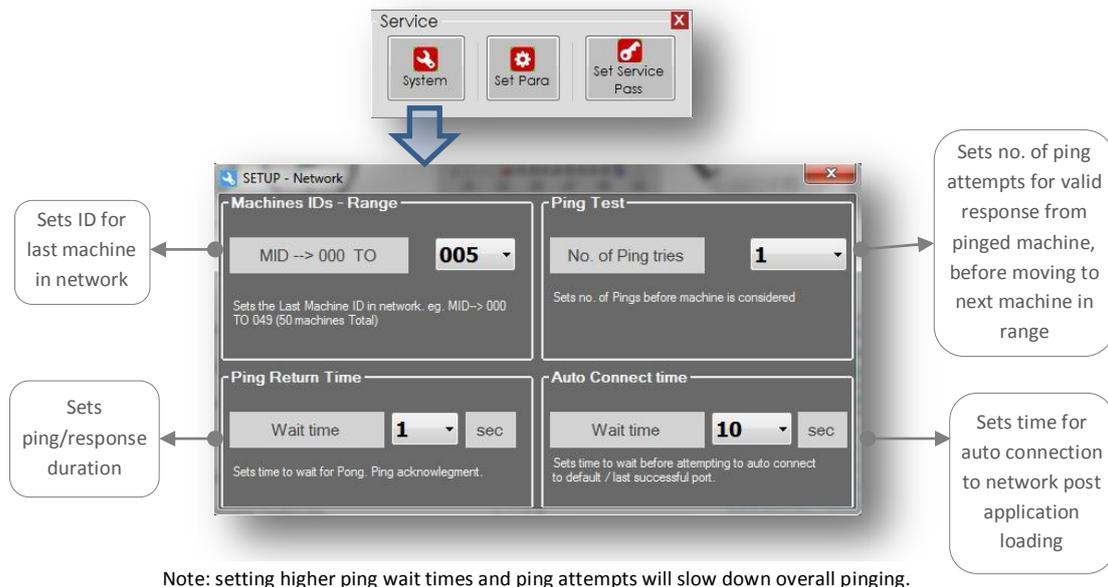

Transducer Driver Locator on actual PCB for Machine - 3

6. SETUP PANEL:

→ This panel is used to access other configuration windows.

Setup
Service | CRMS

Note: Both panel buttons require passwords to access.

Default passwords:
Service → maser
Admin → admin

Service Password!!
Please enter 'Service Password'.
*****
OK | Cancel

Admin Password!!
Please enter 'Admin Password'.
*****
OK | Cancel

Service
System | Set Para | Set Service Pass

CRMS Setup
Schedule | Report | Set Admin Pass

(6-1) SERVICE → SYSTEM DIALOG (NETWORK SETUP)

Service
System | Set Para | Set Service Pass

SETUP - Network

Machines IDs - Range
MID --> 000 TO **005**
Sets the Last Machine ID in network. eg. MID--> 000 TO 049 (50 machines Total)

Ping Test
No. of Ping tries **1**
Sets no. of Pings before machine is considered

Ping Return Time
Wait time **1** sec
Sets time to wait for Pong. Ping acknowlegment.

Auto Connect time
Wait time **10** sec
Sets time to wait before attempting to auto connect to default / last successful port.

Sets ID for last machine in network

Sets no. of ping attempts for valid response from pinged machine, before moving to next machine in range

Sets ping/response duration

Sets time for auto connection to network post application loading

Note: setting higher ping wait times and ping attempts will slow down overall pinging.

(6-2) SERVICE → SET PARAMETERS DIALOG (REMOTE CONFIGURATION)

Configure machine parameters

Broadcasts parameters to all machine on network
(Only if all machines are the same model)

Sets parameters of selected machine ID

Note: Parameters are model dependent. Unavailable parameters will show greyed out.

(6-3) SERVICE → SET SERVICE PASSWORD DIALOG (CHANGE PASSWORD)

Note: This changes the default service password 'maser' to new password

(6-4) CRMS → SCHEDULER SETUP (FOR AUTOMIZED REPORTING)

CRMS Setup
Schedule | Report | Set Admin Pass

Automated Schedule -BMS

BMS Test Schduler

Daily | Weekly | Fortnight | Monthly

Seeks the coming weekday (selected) for 1st schedule.
Automatically adds 7 days for subsequent test dates.

BMS DAY OF WEEK
Day | FRI
Sets Day of week. (Mon - Sun)
Note:Not used for Daily and Monthly schedule mode.

BMS DAY OF MONTH
Day | 21
Sets Day of Month (1 to 31)
Note Last day of month will be taken for month not having that date of month.

BMS Time
Time | 12:00 | AM
Sets time for BMS Testing

--> Friday, 21 February, 2014 12:00 AM<--
--- Press 'Update Schedule' to save changes ---

Update Schedule

Choose from daily / weekly / fortnightly / monthly scheduled network reporting

Sets date & time for automated network ping and reporting

Scheduled date/time for report generation.

Updates changes to scheduler engine

(6-5) CRMS → REPORT SETUP (FOR SCHEDULED REPORTING)

CRMS Setup
Schedule | Report | Set Admin Pass

Report Setup

Report type
☑ Consolidated Reporting
☑ Individual Machine level reportig
Note: Unchecking both disables all reporting.

CRMS Report location
C:\Users\Hp\Documents\MASER\MaserCRMSSuite_ver7\
Specify path for file storing folder.
A folder named CRMS_Reports will be created.
Browse

Helpline / Support
Helpline- | +91-22-4111 0000
Email- | support@maserindia.com

Client Info
Client Name
enter name
Client Site
enter address

Client Logo
Load/Save
Update/Save

Choose type of reporting

Browse and select scheduled repots saving location

Client name & site address that will appear on the reports

Customer care details that will appear on reports

Client logo that will appear on reports

Updates changes for scheduled reporting

(6-6) CRMS → SET ADMIN PASSWORD DIALOG (CHANGE PASSWORD)
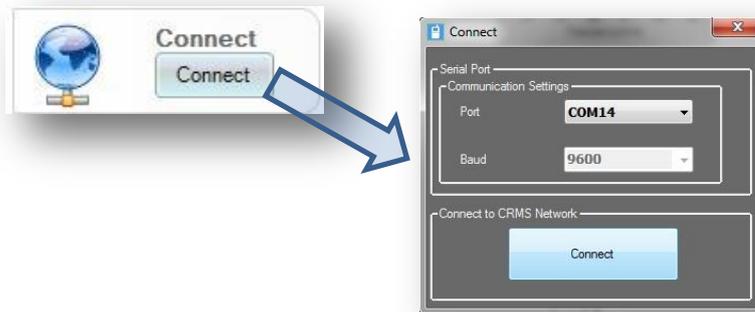

Note: This changes the default admin password 'admin' to new password

7. CONNECT PANEL:

→ Pops up the connect dialog window, if cancelled without connecting earlier.

8. CRMS REPORTS: (GENERATED AUTOMATICALLY BY SCHEDULER)

→ Two types of report formats are available. (Refer sec- 6-5 Report Setup)

→ Below shown is a typical CRMS folder

→ Marked in red is the consolidated folder which contains all the consolidated reports.

→ Marked in blue is a individual machine folder MID-3. It contains all the individual PDF report files.

→Newer files have incremental order

Example-REPORT-ALL-0.pdf, REPORT-ALL-1.pdf
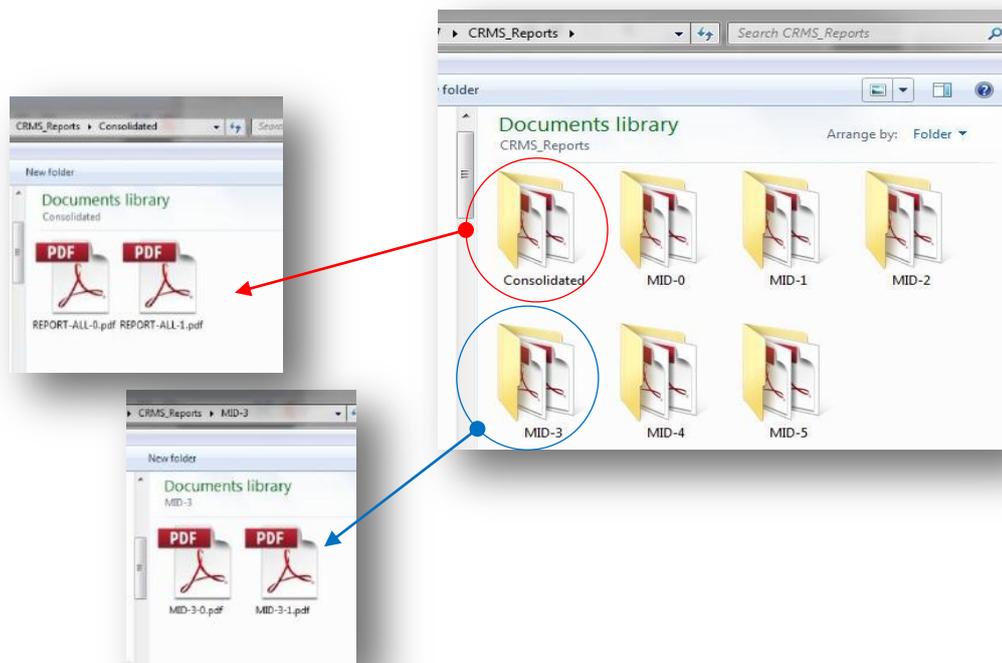
Note: See section 5-2 & 5-3 for generated reports snapshot.

9. INVOKE VIRTUAL MACHINE BUTTON:

→ Entering the virtual machine password in the service password dialog enables the 'virtual machine setup' button.
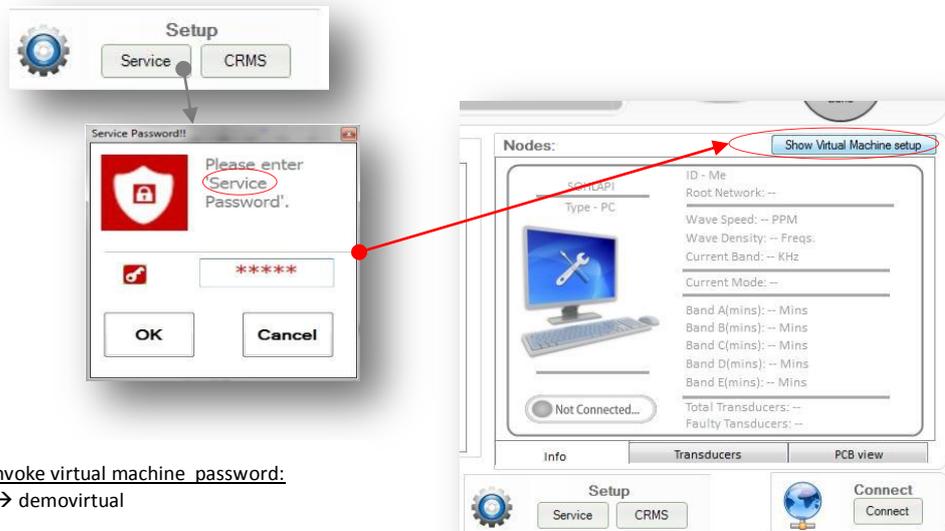
Invoke virtual machine password:
   → demovirtual

10. VIRTUAL MACHINE:

→ The virtual machine set up allows user to simulate hardware functionality across various models. This is helpful for displaying / testing software functionality without actually connecting to a physical network or requiring actual machines.

1	Machine model selection
2	Machines added to network (tree view)
3	Selected machine ID
4	Sets machine to online / offline
5	Generates forced ping and reports to mimic scheduler
6	Sets band duration for supported bands
7	Set transducers / drivers to random errors / all ok / all errors
8	Sets wave speed
9	Adds virtual machines to CRMS network
10	Sets current band for machine
11	Sets current wave density for machine
12	Sets auto / manual mode
13	List view of virtual machines to add to CRMS network
14	Recall saved virtual machine network project
15	Save virtual machine network project
16	Clears all virtual machines added to list
17	Add new virtual machine to list
18	Add number of machines of selected machine

(10-1) VIRTUAL MACHINE → ADDING MACHINE TO PROJECT

Select number of machine for selected model

Select a virtual machine from the machine drop down list

Pressing 'Add to list' includes machine / machines to tree and list

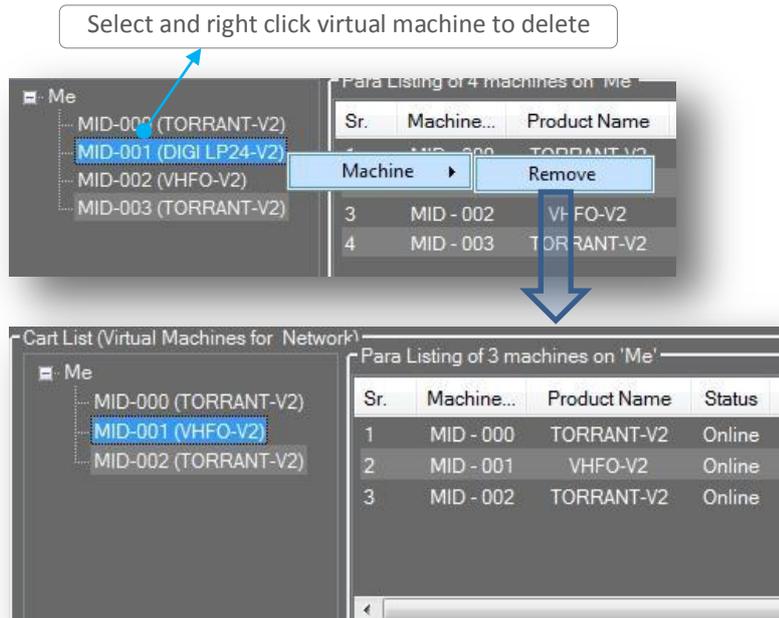## (10-2) VIRTUAL MACHINE → MACHINE PARAMETER EDIT

Select virtual machine to edit (click machine in tree or list)

Note: Parameters are model dependent. Unavailable parameters will show greyed out.

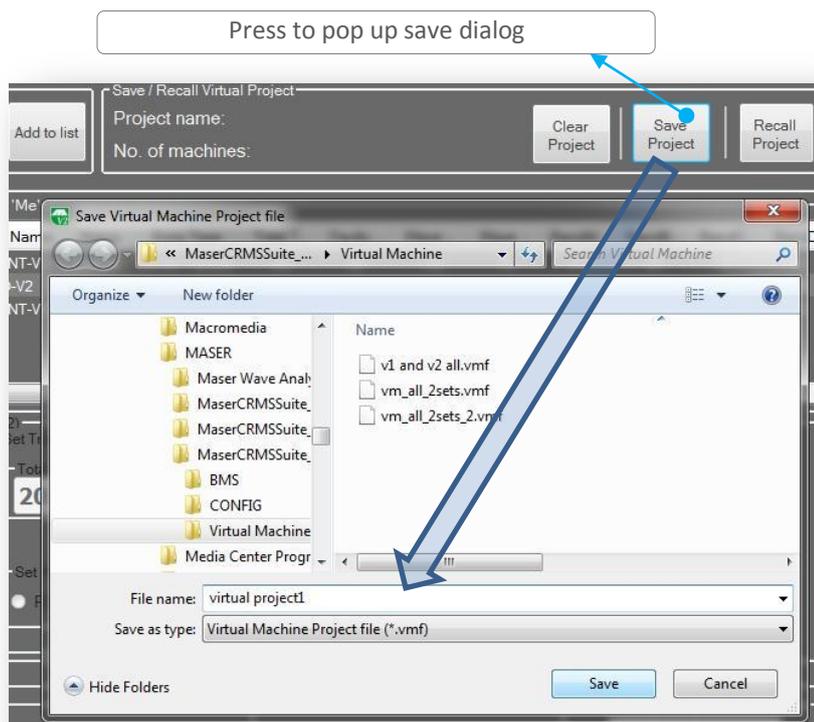eg. Change wave speed using dropdown list

(10-3) VIRTUAL MACHINE → DELETE VIRTUAL MACHINE

Select and right click virtual machine to delete

Note: eg. MID-001 (DIGI LP24-V2) is deleted.

(10-4) VIRTUAL MACHINE → SAVE PROJECT
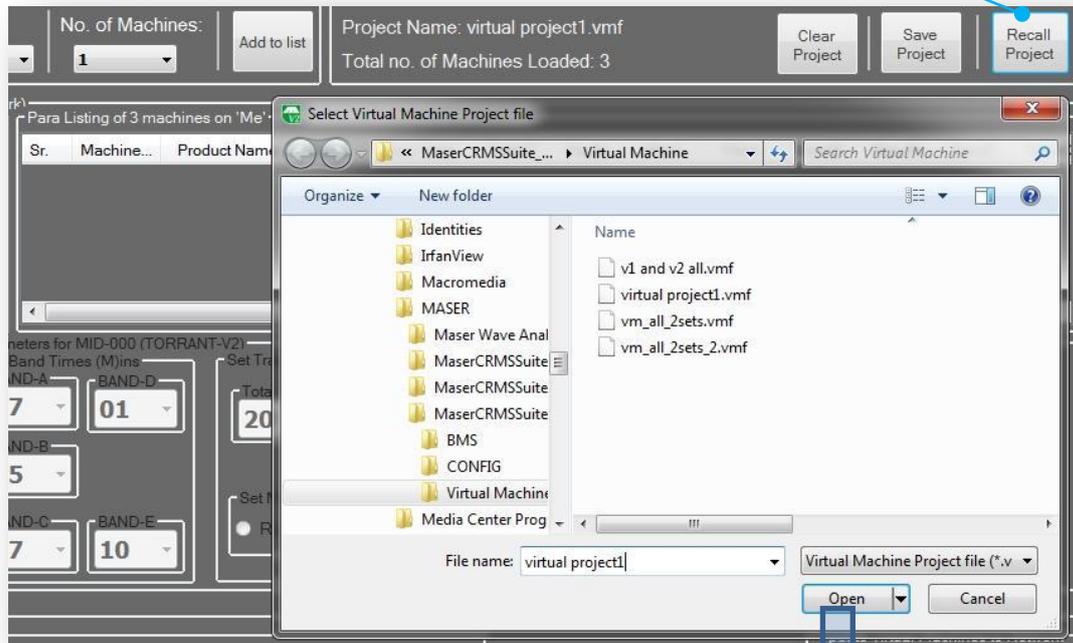
Press to pop up save dialog

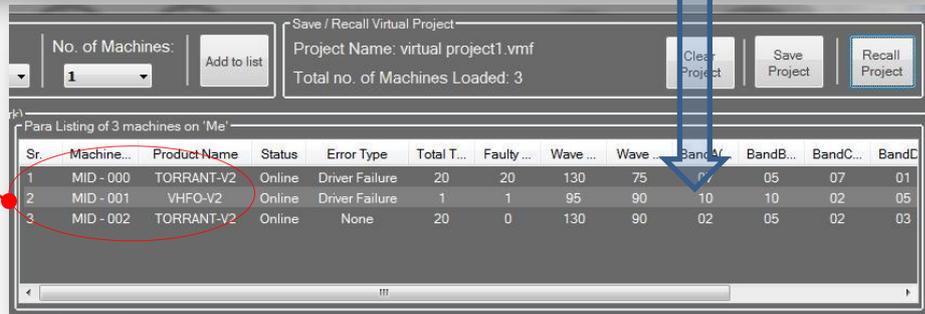Note: Saved projects can be reloaded using recall project.
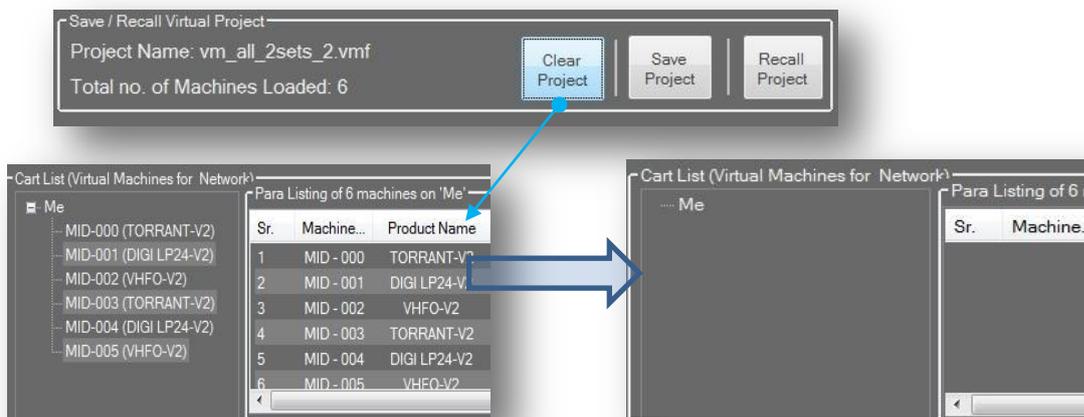
(10-5) VIRTUAL MACHINE → RECALL PROJECT
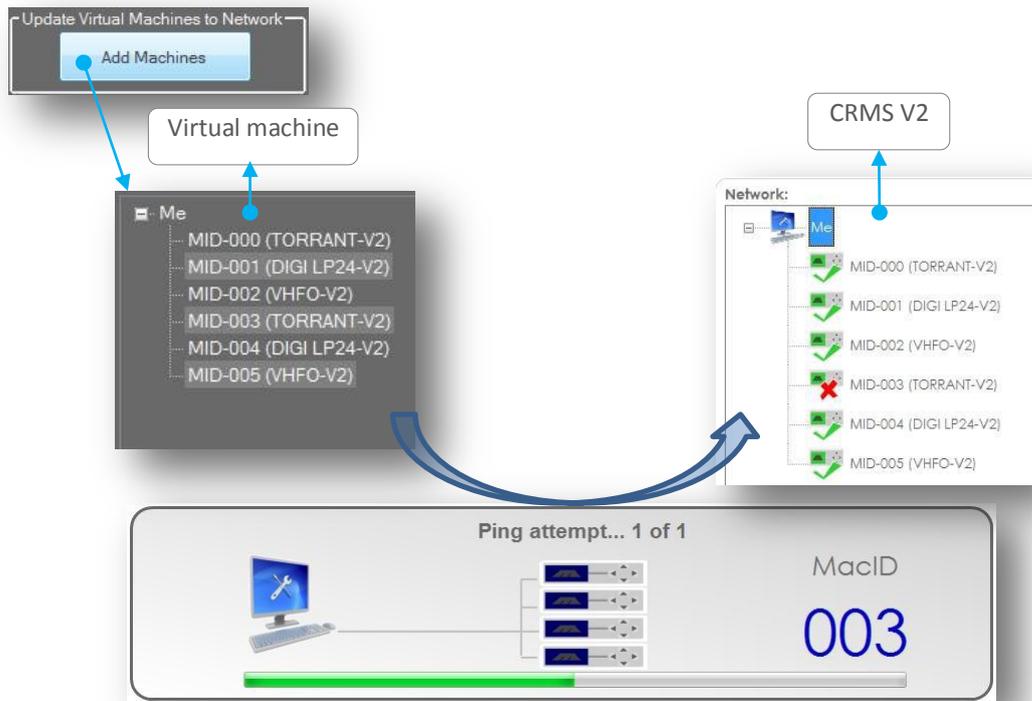
Press to recall virtual project

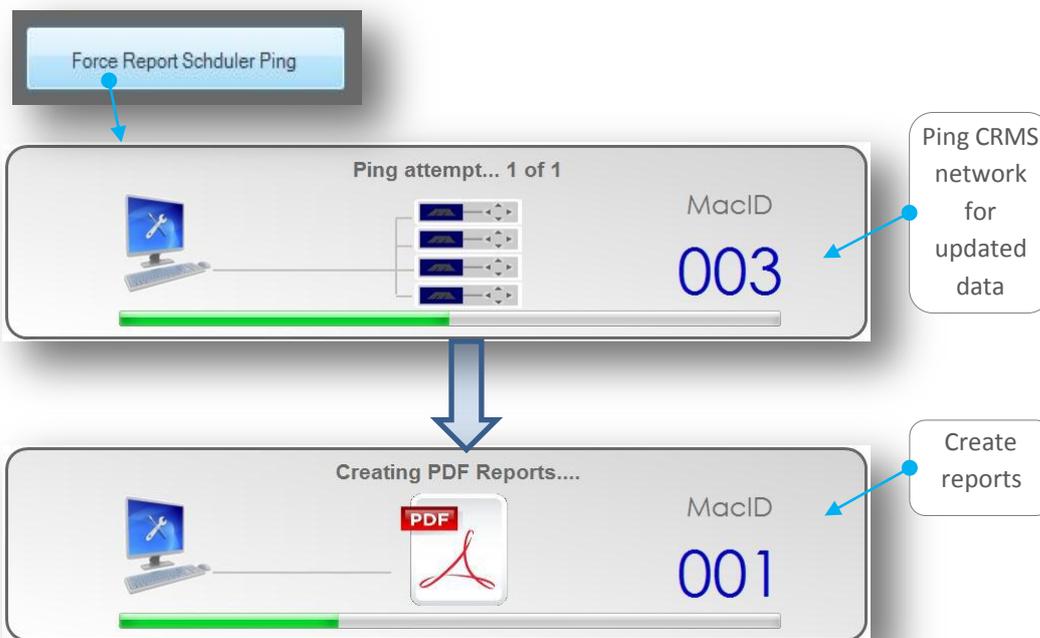Virtual machines recalled from project

(10-6) VIRTUAL MACHINE → CLEAR PROJECT / DELETE ALL MACHINES

(10-7) VIRTUAL MACHINE → ADD VIRTUAL MACHINES TO CRMS NETWORK

Update Virtual Machines to Network

Add Machines

Virtual machine

CRMS V2

Me
- MID-000 (TORRANT-V2)
- MID-001 (DIGI LP24-V2)
- MID-002 (VHFO-V2)
- MID-003 (TORRANT-V2)
- MID-004 (DIGI LP24-V2)
- MID-005 (VHFO-V2)

Network:

Me
- MID-000 (TORRANT-V2)
- MID-001 (DIGI LP24-V2)
- MID-002 (VHFO-V2)
- MID-003 (TORRANT-V2)
- MID-004 (DIGI LP24-V2)
- MID-005 (VHFO-V2)

Ping attempt... 1 of 1

MacID

003

(10-8) VIRTUAL MACHINE → TRIGGER REPORT GENERATION PING TO MIMIC SCHEDULER

Force Report Schduler Ping

Ping attempt... 1 of 1

MacID

003

Ping CRMS network for updated data

Creating PDF Reports....

PDF

MacID

001

Create reports

Note: See section – 8 to know more about CRMS report generation.
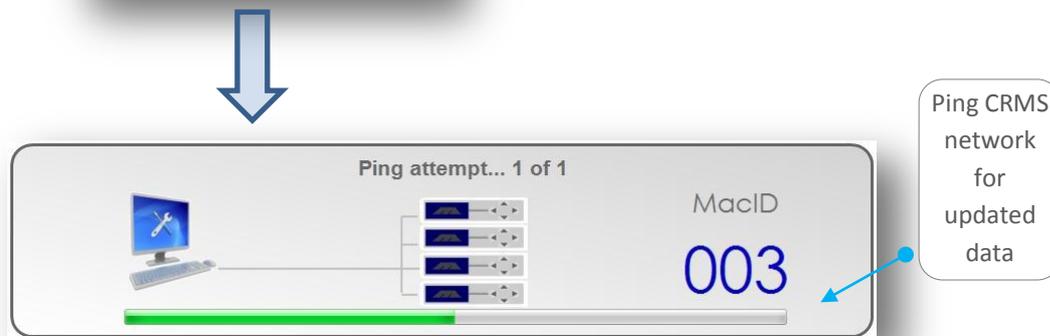
11. AUTO PING:

→ The CRMS network is auto pinged every half an hour to update machine status / health and currently running parameters.

Note: This event occurs even if CRMS suite window is minimized.

Ping CRMS network for updated data

USER NOTES: