

µeLAN[®] Max 4.5.3 FAQ's

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1. What is µLAN® Max 4.5.3?

- µLAN® Max 4.5.3 is a totally indigenous, state of the art SCADA software package
- Easy to install, plug and play Energy Management software
- Provides all the standard features required for an electrical energy management system
- Supports on-line monitoring of various parameters, generating history information, and periodic reports
- Communicates with 120 Devices (EM3000 series, EM6400 series(including DigitAN, PowerMax), CVM 96, CVM 144, EM6600, EM6438, Coolite and Data Logger- LM24 and GEPLC)
- Reports available via Excel (Spreadsheet) format by default. Can also export to RTF, DOC and PDF formats

2. What's new about µLAN® Max 4.5.3?

- Enable only Load Center (Meter) which you want
 - a. Supports Maximum 120 nodes
 - b. Conzerv EM 3360, EM 3460 & EM 3480 (IE, IE + TOU)
 - c. Conzerv EM6400 and future sub-series
 - d. CVM 96
 - e. CVM 144
 - f. EM 6438
 - g. Coolite
 - h. Conzerv PowerCon EM6600(EM6610 and EM6620)
 - i. Data logger -24 channel. (LM24 and GE PLC)
- Multiple Windows Platform Support (Windows XP professional and VISTA 32 bit)
- Multiple Communication Interface
- Serial Port, USB Port, Ethernet converter
- History View given a complete face-lift
- Print HMI Screens
- Take Snapshot of HMI Screens
- Tabular View provided in HMI Screens
- Tabular View of Tags and its value is added. You can configure any tags from any load center and view in one single frame. Also this presents an elegant look to HMI Screens
- Improved Appearance
- In "DatabaseBuilder", the tag values are right justified, this gives better readability
- In "DatabaseBuilder" tags are displayed only for the configured devices
- Now HMI Screens presents more elegant look
- Specific Energy Consumption Report
- Power Interruption Report
- Max Demand & Time of occurrence report
- Data logger Report
- Log Report
- Breaker Status Report
- Load Center Group Wise Report
- Automatic Generation of Reports
- Emailing Of Auto Generated Reports
- Coolite Scheduler
- Product Registration
- Trial mode for 60 day without hardware key
- Graphical Visualization of energy consumption and specific energy consumption

3. What is the difference between µLAN[®] Max 4.3 and µLAN[®]Max 4.5.3?

- The main difference is the number of nodes or meters supported has been increased from 30 to 120.
- The looks and feels of screens and reports are enhanced.
- Reports with or without graphs can be generated on the fly.
- Matrix style Reports available in Consumption Day to Day Reports.
- The previous (µLAN[®] Max 4.3) chtd files are not compatible in µLAN[®]Max 4.5.3.

4. What operating systems are supported?

- Windows XP Professional (Service pack 1, 32 Bit)
- Windows Vista (32 bit).

5. What is the Communication Interface supported?

- Connect the Devices / Meters thru any one of the following
 - RS232 Serial Port (COM Ports available in the PCs)
 - USB Port via USB to Serial Converter Cable
 - Requires USB to Serial Converter driver to be installed.
 - RS485 / RS232 Serial Port to Ethernet Converter
 - Recommended Make: Moxa NPort Express Model No DE-211
 - Respective Drivers should be installed and configured by user.
- µLAN[®] Max 4.5.3 Supports only COM1, COM2, COM3 and COM4. So configure the communication interface for any one of the ports

6. How to enable only Load Center (Meter) which you want?

- µLAN[®] Max 4.5.3 will read from the load centers which are enabled as per the PO/Indent. So if you have only meters connected then µLAN[®] Max 4.5.3 will read only from the meter you have configured
- You should order this information before you buy µLAN[®] Max 4.5.3, the hardware key will be programmed per order
 - You can enable more load centers at later period also (max up to 120 nodes), for this you shall contact Conzerv HO

7. What I am supposed to do if I have to upgrade (more nodes or different combination of meters)?

- Raise indent on the requirement. Mention the µLAN[®] Max 4.5.3 hardware key number in the indent itself
- The new hardware key will be sent to the customer
- On inserting the new key µLAN[®] Max 4.5.3 will be upgraded with the new configuration

8. What will happen if µLAN[®] Max 4.5.3 is reinstalled (or PC formatted) after (License) upgrade?

- The Upgraded License information will be retained, since it is stored in hardware key.
- You will have to just reinstall µLAN[®] Max 4.5.3 and insert the hardware key firmly and run µLAN[®] Max 4.5.3.

9. What third party software required?

- Microsoft Office 2000 / XP / 2003 to generate reports
- Microsoft Internet Explorer 6.x or above

10. What hardware is recommended?

| | |
|---------------------|--|
| PC: | Intel Core 2 Duo |
| RAM: | Min 512MB till 30 nodes and more than 1GB RAM above 30 nodes |
| Hard disk capacity: | 1) Less than 30 nodes: 80GB Minimum 2) Greater than 30 nodes: 200GB Minimum Minimum 5GB required before Installation |
| Monitor resolution: | 1024 X 768 with minimum 256 colors |
| Serial ports: | COM1 to COM4 ports |
| CDROM drive: | 48X or above |

11. What are μ LAN[®] Max 4.5.3 Technical Specs?

- Number of Mimic (values display) pages: Based on the number of devices configured
- Number of Trend pages: Based on the number of EM 3000, EM 6400, CVM 96, CVM 144, EM6438, EM6600, Coolite
- Number of Matrix pages: 12 pages displaying VLL, A, KW, KVA, PF, HZ, KWH and DM
- Number of Pens per Trend: 8 Preset (Maximum is 20)
- Archiving: Supported on Windows compatible internal or external HDD or MO Drive (Requires drivers from drive supplier)
- Duration of storage of Historical data in HDD: Storage until 90% of HDD is full, after which old data will be purged
- Alarms: User programmed Full-Scale settings required before use. Arranged in 16 Groups
- Operating Quadrant: 1st and 4th quadrant, i.e., the meters should be in Forward current direction

12. What devices are supported?

- Conzerv EM 3360, EM 3460, EM 3480 (IE, IE + TOU)
 - In EM 3000 Series TOU Meters, only the select parameters are available, the TOU parameters are not available in μ LAN[®] Max 4.5.3
- Conzerv EM 6434
- Conzerv EM 6436
- Conzerv EM 6459
- Conzerv EM 6400 (Basic, IE, THD, DM, TOU, DM+IE, DM+THD, DM+THD+IE)
 - In EM 6400 Series Meters, the voltage phase angle parameters will always displays constant value for the following parameters Vr_deg = 0, Vy_deg = 120 and Vb_deg = 240. The Voltage Phase Angles Parameters are available only for communication and not available for display in the meter. However, this is applicable for EM 6400 Series meters up to version 02.03.01, in future version meters these parameters may display actual readings
- CVM 96
- CVM 144
- EM 6438

- Coolite
- EM6600 (EM6610 and EM6620). Only monitoring function supported by µLAN® Max 4.5.3
- Data Logger
 - Conzerv DM 52 (Any pulse-generating device) can be connected to Data Logger

13. How many tags are read from the different devices?

| | |
|--|-----|
| Number of parameter per EM 3000 | 21 |
| Number of parameter per EM 6400_DigitAN | 28 |
| Number of parameter per CVM 96 | 105 |
| Number of parameter per CVM 144 | 150 |
| Number of parameter per LM 24 | 24 |
| Number of parameter per EM6600 | 19 |
| Number of parameter per EM6438 | 15 |
| Number of parameter per EM 6400_PowerMax | 17 |

21 What reports are provided?

- Crystal Report**
- Hourly wise Consumption report
 - Daily shift wise Consumption report
 - Day-To-Day Consumption report
 - Hourly wise Export Consumption report
 - Daily shift wise Export Consumption report
 - Day-To-Day Export Consumption report
 - Daily shift wise Demand report
 - Day-To-Day Demand report
 - Daily shift wise Power interruption report
 - Day-To-Day Power interruption report
 - Daily shift wise Log reports.
 - Daily shift wise Data logger report
 - Day-To-Day Data logger report
 - Daily shift wise Breaker Status report

22 What about the installation and commissioning of µLAN® Max 4.5.3?

- This is a plug and play software and easy to install by following the procedure given in the manual
- In case, the customer requires assistance by visit it will be done on chargeable basis @ Rs 5000 per man-day

23. How many meters/devices are supported?

- Communicates with 120 Devices (EM 3000 series, EM 6400 series (including DigitAN, PowerMax), CVM 96, CVM 144, EM6600 (EM6620 and EM6610), Coolite, EM6438 and Data logger)
- Any meter of any combination is possible and the same will be preconfigured in the hardware key while ordering

24. Can I set the meter ID of my choice?

- No, the meter id should match the meter Id configured in the hardware key
- The meters configured in the hardware key can be viewed in the setup screen

25. Can I interchange meter in later stage? (For e.g. EM 6400 to LM 24)

- It is instructed not to interchange the meter in later stage, because there will be a conflict in the history data and the new data
- Report generation will fail if meters are interchanged

26. Can I export the generated report to other formats?

- Yes, the generated reports are automatically exported to excel and saved. These files can be viewed in view reports option
- After generating the reports the reports can be exported to any of the following format: .pdf, .xls, .doc and .rtf

27. How the customer will know the meter ID configuration for the meters?

- The customer will be provided with a printout of the meter models and its ID
- This information is also present in CD in the file "Meter Config Document.doc"

e.g. If it is mentioned as meter ID 1 as EM 6000 then the meter connected with ID 1 should be EM 6400 series only. You should not connect any other meter (EM 3000 or CVM 96 or CVM 144 or LM 24 or EM6600 or EM6438 or Coolite) with meter ID 1.

28. What is the Ordering information required.

- The meter models those are required
- Number of meters that are to be connected in each model
- Company Name

29. What is trial mode in µLAN® Max 4.5.3?

µLAN® Max 4.5.3 will run in "Trial mode" if hardware key is not present in the USB port. This trial mode will expire after 60 days from the day of installation. All the features available in µLAN® Max 4.5.3 can be used during the trial mode, but it will work only with one EM 3000, five EM6400 type, one EM6438, one EM6600 and one datalogger. After 60 days a hardware key will be required to run µLAN® Max 4.5.3.

30. How to order for trial version?

Request to EMS in-charge to send µLAN® Max 4.5.3 trial version with Power Max setup/DigitAN setup.

31. What is the validity of trial mode?

- 60 days
- If additional trials need to be conducted, the service engineer can extend the trial mode duration by another 60 days by running the trail period extender utility on the µLAN® MAX 4.5.3 PC. He can get it from the EMS in-charge.

32. What if customer wants go for licensed version of µLAN® MAX 4.5.3?

Order for the USB License key with the number of meters required and mention the meter details

33. What Conzerv will do?

- Send the USB License key programmed for the required no of nodes as specified by customer. The Customer or service engineer should uninstall the previously installed µLAN[®] Max, delete the installation folder (D:\ueLAN 4.5.3) and reinstall µLAN[®] MAX 4.5.3 and run it with the hardware key. µLAN[®] MAX 4.5.3 will start working as per the configuration defined in the hardware key.
- If it has not met customer requirement/if he doesn't want to go for it, Software will get automatically disabled after 60 days

34. Is there two different setups are available for trial mode and normal µLAN[®] Max 4.5.3?

No. There is only one setup available for both trial mode and normal working mode. µLAN[®] Max 4.5.3 setup will work in trial mode if the hardware key is not used & works in normal mode if hardware key is used.

35. What happens when the trial period is over?

When the trial mode is over µLAN[®] MAX 4.5.3 will get's locked. Customer can do the following:

- Customer can buy the License for µLAN[®] MAX 4.5.3 and a hardware key will be provided with the necessary configuration (number of nodes, type of meter at each of the node). µLAN[®] MAX 4.5.3 to be reinstalled with the hardware key after uninstalling and deleting the µLAN[®] directories (D:\ueLAN 4.x).
- Or
- If additional µLAN[®] MAX 4.5.3 trial needs to be conducted, the sales or service engineer will run the trail mode extender utility on the µLAN[®] MAX 4.5.3 installed PC to extend the trail mode by 60 days.

36. What if existing customer ask for Upgradation of nodes?

- If customer is having µLAN[®] Max 4.3 and requests for addition for additional nodes upgrade the software to µLAN[®] Max 4.5.3 with additional cost nodes expansion.
- Before upgrading to µLAN[®] Max 4.5.3 the chtd data backup in the µLAN[®] Max 4.3 system need to be taken and all reports generated. Once this is done, µLAN[®] Max 4.3 need to be uninstalled and µLAN[®] Max 4.5.3 to be installed with the new USB License Key.

37. What setup to be used if the customer is having mixture of PowerMax and DigitAN Meters?

If the customer is having mixture of PowerMax and DigitAN Meters, then they have to configure PowerMax and DigitAN as different devices.

38. What has to be done if the customer purchases less than 9 meters?

If the customer is running µLAN[®] Max 4.5.3 in trial mode and if they want to use less than 9 meters, then to go theueLAN 4.x\bin path and they have to delete ueLAN.ini file and start running µLAN[®] Max.

39. What tags have to be referred in case of PowerCon?

In case of PowerCon we have two types of tags, one starts with "I" and another starts with "A". Tags starting with "A" should be referred for actual values of PowerCon in all screens like tag database and trends.

40. How to enable or disable a meter?

By default all the meters configured in the software will be enabled. To disable an already enabled meter, run μ LAN[®] Max 4.5.3 and then navigate to the Configuration menu->Device screen. Deselect meters that have to be disabled and press Apply button. Then deselected meters will be disabled. If you want to enable again, select those meters and again press Apply button. Those meters which were disabled will be enabled.

41. Precautions to be taken before installation of μ LAN[®] Max 4.5.3?

- Suppose μ LAN[®] Max 4.5.3 has to be installed in someone's user account, then before installing give administrator rights to the user account because μ LAN[®] Max 4.5.3 will register some dlls into the registry. If administrator rights are not given then μ LAN[®] Max will install but it won't register dlls into registry. So while generating reports it may not generate report and may give error.
- If you have installed μ LAN[®] Max 4.5.3 in one user's account, then don't access that in some other user's account.

42. What changes has to be taken if Repeater is used?

Suppose Repeater is used, change the baud rate to 2400. We also use better repeaters to support baud rate 9600.

References:

- µLAN[®] Max 4.5.3 User Manual.
- µLAN[®] Max 4.5.3 Installation Manual.