

LMS Services GmbH is an expert in the field of Ripple Control and Load Management Solutions, based in Mannheim, Germany.

Core competence is the planning, construction and maintenance of Ripple Control Systems in mid- and high-voltage grids, including delivery of a full range portfolio of audio Ripple Control Receivers.

At the same time, LMS Services offers next-generation Switching-Box and Load Management Solutions, which are operated securely over private and public wireless networks such as LTE, CDMA, Narrow Band IoT or Paging Systems. Projects with CDMA, LTE and Pager technologies have been deployed successfully in the Netherlands and Germany.

Furthermore, LMS Services offers Communication Devices for transparent AMI/AMR Meter Readout via 2G, 3G, 4G and LTE/450Mhz radio networks.

Today, LMS Services operates projects for its customers in more than a dozen countries across Europe and Africa. More than 40 years of experience in Load Management build the foundation for expert consulting, enable efficient operations of existing systems and allow the stepwise migration into new technologies.

In 2018, LMS Services took over the Ripple Control business of Honeywell / Elster Solutions GmbH (formerly ABB), in order to provide to its joint customers new Ripple Control Systems, appropriate enhancements as well as comprehensive services and maintenance for the next decades of operations.

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LMS Services Portfolio

Command and Control System LMM700:

- Control of Ripple Systems and radio based Load Control Solutions
- Daily Schedules / Events / Astronomical Calendar / Ad-hoc Switching
- Coupling with Grid Control Center via IEC 60870-5-104

Ripple Control Systems:

- Local Command Unit: LMC610 | LCU610
- Ripple Transmitters: RTS600 | RTS640
- Ripple Systems for Mid- and Highvoltage transmission
- Test- and Emergency Backup Transmitter: LTS600

Ripple Receivers:

- Tarif-Switching, Load-Management, Renewables, Streetlight, E-Mobility
- 3-point mount: LCR600 (1 to 6 pluggable Relays)
- Din-Rail mount: LCR160 (2 Relays) LCR170 (4 Relays)
- Streetlight Pole: LCR260 LCR270 (2 Relays)
- Backup Schedules, Astronomical Calendars, Versacom-Solutions

Radio Based Switching Solutions:

- Steuerbox according FNN for Smart Meter Gateway connection via IEC 61850 protocol:
 - STB810: Din-Rail mounting
 - STB820: 3-Point mounting
- Load Control Box LCB760 (LTE), 4 Relais, incl. IEC 1107 protocol
- Load Control Box LCB900 (LTE/450Mhz), 4 Relais, incl. IEC-104 Telecontrol protocol

Communication Devices / External Meter Modems:

- Modems SDX-AMR for remote Meter reading
- GPRS, 4G/LTE and LTE/450MHz Communication
- Fix IP Address via APN / ip-telemetry
- Meterinterfaces: RS485, RS232 and CLO

Services and Support:

- Consulting, Planning, Grid Analysis
- Installation and Commissioning
- Maintenance and Repairs
- Spare Parts Support
- Softwaresupport and Service Support Contracts