



MDM is a component of Terranova's market-leading advanced metering management suite known as TAMM. Specially designed for use within gas, water or electricity sectors, MDM brings all the benefits of unified management together with pre-processing of metering and consumption data. Use our software to help streamline smart metering processes and feed meter data analytics to create new business value.

▶ ADDING VALUE

- **Single platform** - experience the benefits of using a common interface to improve unified smart meter management.
- **Utility neutral** - specially designed for use across gas, water and electricity sectors.
- **Manufacturer agnostic** - communicate freely with existing or future meter cohorts.
- **Smart metering protocols** - MDM is agnostic, offering full compatibility with all the standard smart metering protocols such as DLMS/COSEM/CTR/MBUS/SML and much more.
- **Wide communication options** - choose between NB-IoT, GPRS/GSM, Radio Frequency, PLC, and others.
- **Data collection** - become smarter in your approach to collecting data from smart and standard meters thanks to an optimised and dependable data repository. Reduce estimations and gather timely and accurate metering data.
- **Operational efficiency** - reduce costs by eliminating door-to-door visits and lower your carbon footprint even when the frequency of remote data collection is increased. Address meter accessibility concerns and reduce customer wait times and much more.
- **Real-time monitoring and decision support** - an intuitive portal improves monitoring of daily activities such as, ensuring data integrity or observation of device diagnostics and system statuses. Use MDM to better inform decision making for metering or network management processes.
- **Full AMR integration** - bring plug and play integration to your existing AMR deployment. Alternatively, use our own market-leading AMR software for full access and control over your data and smart metering.
- **Digital Utility Platform** - Terranova has a suite of market-leading products designed to bring the benefits of smart metering and smart grid to the utility sector. MDM sits perfectly within the TAMM suite alongside AMR (automatic meter reading), TSG (Smart Grid), and TWFM (workforce management solutions).
- **Metering data analytics** - leverage the data received via our MDM to better inform meter data analytics and create business value. Start making smarter decisions with, energy procurement based on usage patterns, predict outages and improve operational efficiency. Detect energy theft, reduce unbilled energy, improve customer satisfaction, and more.

▶ CORE FUNCTIONALITY

- **Process management** - benefit from automated configuration of metering cohort management and related processes. For instance, metering data acquisition, remote meter operations, events and alarms management, validation estimation and editing (VEE), and others.
- **Meter Hardware management** - MDM simplifies the management of master data, meter installation, replacement, commissioning, and decommissioning. It does this with a wide set of remote commands and full integration with our local management mobile application TAMM Mobile.
- **Alarm and diagnostics** - advanced tools improve meter management in ways that better recognise critical operational levels and also allow for alarm categorisation. For instance, an alarm resolution workflow allows users to modify alarm statuses such as, 'New', 'WIP', or 'Solved'.

- **Auto alarm resolution** - MDM also has a built-in engine for the automatic resolution of specific alarm types. For instance, if communication with a meter is lost, an alarm is raised and then cancelled as soon as meter communication is re-established.
- **Advanced command management** - thanks to an intuitive interface and sophisticated underlying architecture, MDM can administer commands in a unified manner. Now there is no need to worry about multiple meter types in your cohort as they can all be controlled in unison.
- **Data representation** - improve the user experience and ensure access to data that is more relevant to workflow requirements. MDM can quickly illustrate clear tables and diagrams, perform advanced customisable reporting and provide data sets that are relevant to the individual user profile.
- **Graphic analysis** - utilise clear graphical views to assist in the analysis of consumption curves and compare data against different measurements from the same meter or data from different ones.
- **Data integrity** - as more organisations adopt a data-driven approach to inform decision making, bad data sources can negatively impact your business. The good news is that MDM employs advanced algorithms to ensure data is fully validated and safe for use in your organisation.
- **Smart billing integration** - deliver billing which is fairer and more accurate to improve customer satisfaction levels. MDM supplies all the necessary billing determinants direct to your billing system. Our software can also provide the data your organisation needs to gain clearer supply and consumption insights to inform physical balancing.
- **Spatial analysis** - quickly locate the physical positions of individual meters and also perform monitoring activities using MDM's built in mapping (GIS) capabilities.

▶ THE TERRANOVA WAY

At Terranova we believe that IT should positively enable your business and not impede it. Our expertise within smart metering means that our products and services are best suited to support your business processes. As a leading supplier to the utility sector we take complex processes and simplify them with elegant yet powerful software solutions.

The Terranova design philosophy promotes the following:

- **Interoperability** - a true vendor-agnostic solution which means your organisation is free to choose the right meter deployments and communication protocols. No more worries over procurement constraints or backward compatibility.
- **Modularity** - our software is modular in design and highly configurable. This means that it can be tailored to meet your specific business requirements as well as making it ideal for integration into complex legacy environments.
- **Scalability** - manage changes to your meter cohort without compromising software performance. Experience the immediate benefits of using MDM with even the smallest meter cohort before gradually rolling out over your entire smart meter deployment.
- **Security** - MDM is an elegant yet powerful software solution which utilises the latest security measures. We work in partnership with one of the world's oldest and well-respected universities to eliminate metering vulnerabilities. Our advanced cyphering systems are deployed to ensure that your data is protected. Communication channels are also secured for safer operation of front-end applications and meters. Finally, implementation is highly robust and includes authentication and profiling.



Find out more about how your organisation can benefit from partnering with Terranova to streamline metering processes, create new business value from your smart metering data and stay ahead of the competition

