



Interoperability – simplified

IDIS can help utilities to lower investment risk, reduce cost and ensure the success of smart meter rollouts in an increasingly connected world.

Using the IDIS Companion Specification means that your smart meter rollout will be delivered to the highest standards of interoperability, reducing risk, and the need to carry out repeated testing and pilots, which all helps to keep costs low.

Based on market leading International Electrotechnical Commission (IEC) 62056 DLMS/COSEM international standards, the IDIS Companion Specification transforms standards into interoperable products through a common use case vocabulary. The Specification acts as a baseline that allows the addition of specific requirements for individual projects, utilities or regions – in effect allowing the creation of a project specific Use Case Profile. This is supported by a proven test-driven interoperability guarantee across all IDIS certified devices facilitating a multi-supplier approach, thus enabling utilities to source from multiple vendors.

IDIS is constantly evolving to meet changing requirements

Since its inception, the IDIS Companion Specification has evolved through 3 baseline 'packages' that enables a core set of key use cases to operate across various underlying communications technologies.

2015 Package 2

Internet Protocol support for TCP/IP networks (G3-PLC, 2G, 3G, 4G)

2010 Package 1

Optimised use cases for narrowband power line communication networks (S-FSK PLC)

2018 Package 3

Extended functionality to address new market demands

Your smart meter roll-out delivered to the highest standards of interoperability

IDIS – meeting the needs of the industry

IDIS enables the following functionality:

- 1 Meter registration
- 2 Remote tariff programming
- 3 Multi-utility meter reading on demand
- 4 Scheduled multi-utility meter reading
- 5 Disconnection and reconnection
- 6 Clock synchronization
- 7 Quality of Supply reporting
- 8 Load management by relay
- 9 Firmware update
- 10 Meter supervision
- 11 Managing end-user Information
- 12 Communication supervision
- 13 Enabling and disabling meter functionality

What's new in Package 3?

- 1 Extended meter reading functionality
- 2 Expanded Quality of Supply parameters
- 3 Improved end-user management
- 4 Improved communication fault finding
- 5 Managing end-user opt-in
- 6 Extended security functionality

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Why use the IDIS Companion Specification?

- **Reduce time** needed to develop technical specifications
- **Avoid asset stranding** – less investment risk
- **Utilise IDIS expertise-in-a-box:** experienced-based learning to ensure a first-time-right approach
- Enable a **competitive, multi-sourced** device environment, with over 40 IDIS accredited devices
- The safe choice – IDIS provides a **proven methodology** with successful rollouts already achieved within **large supplier ecosystems**.

Why should System Integrators or Consultants use the IDIS Companion Specification?

System Integrators and Consultants have used the IDIS Companion Specification to deliver successful, interoperable smart meter rollouts around the world.

IDIS is structured on the globally-used IEC DLMS/COSEM standards, so SI's and Consultants can develop expertise that's easily applicable in other rollouts and become part of a recommended 'stable' of IDIS implementation experts.

By leveraging the IDIS baseline companion specifications and use case descriptive approach, new extensions and amendments can be rapidly workshopped and defined with clients, delivering a number of benefits:

- Time-proven descriptive documentation approach reducing project risk and time to market
- Incremental (as opposed to new and proprietary) specification for IDIS device vendors to target and implement, giving a multisource guarantee
- Rapid development of an associated device conformance test tool controlled by the utility
- Re-using a known interoperability certification methodology

Compliance Testing and Use Cases – Guaranteed flexibility.

The IDIS Association offers a product compliance testing process via an independent facility. Devices are tested via a well-respected third party, with 40 certified devices currently holding the IDIS test label.

The IDIS conformance test gives utilities the confidence that multiple vendors are qualified for the relevant baseline IDIS specification.. Conformance test reports clearly identify the type and manufacturer of the device; the extensions, and the additional Options supported by the device.

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How do Utilities lower investment risk, reduce costs and ensure the success of their smart meter roll outs?

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