

M2M use cases

INDUSTRY

- Monitoring
- Tracking
- Automation
- Intelligent manufacturing

UTILITIES

- Smart home
- Intelligent switching
- Load Management
- Fault management

TRANSPORT

- Fleet tracking
- eCall
- Stolen vehicle recovery

HOME

- Access monitoring
- Alarm warnings
- AC & heater
- Theft detection

Track & Trace

Track and trace use cases are mainly automotive related.

These services may be implemented via applications residing inside the M2M UICC.

1. Use case – Emergency Call - an in-vehicle M2M communication module enables the transfer of emergency call data between the vehicle and an emergency service.

2. Use case – Fleet Management - a vehicle has a built-in M2M communication module which is typically owned by a company (not the user). The module collects information, for example: location, timings, traffic jams, maintenance data and transport environmental conditions.

3. Use case – Theft Tracking - the introduction of the M2M UICC allows for the possibility of preventing the theft itself or recovering the vehicle, for example by theft tracking.

Monitoring

M2M applications within this category are either used to monitor and control utilities consumption, or monitor, track and trace persons, animals or assets.

These services also may be implemented via applications residing inside the M2M UICC.

1. Use case - Metering / Prepaid delivery of utilities (water, gas, electricity) - improve energy performance and efficiency through a much more accurate picture of consumption, efficiency and cost, delivering the end user actual usage without human intervention.

2. Use case - Person / Animal protection - improve security and / or remotely monitor the status, track and trace either the person or the animal (M2M communication module, a UICC and optionally a GPS)

3. Use case - Object protection - sending information automatically or on demand to a server application which can monitor the status and positioning of objects (M2M communication module, a UICC and optionally a GPS).

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Control

These services also may be implemented via applications residing inside the M2M UICC.

1. Use case - Controlling vending machines - By allowing access to a mobile telecommunication network, the M2M UICC can be used by a built-in M2M communications module to provide authenticated information about the current status of the vending machine via the network to a background service.

2. Use case - Controlling production machines - By allowing access to a mobile telecommunication network, the M2M UICC can be used by a built-in M2M communications module to provide authenticated information about the current status of the production machine via the network to a background service. Additionally it is possible to transmit updates of e.g. updated software or perform remote maintenance via Over-The-Air functionality. This way the production machines need only to be visited as required

Transaction

These services also may be implemented via applications residing inside the M2M UICC.

- **Use case** - PoS Terminals (Point of Sale Terminals)
M2M communication modules can be installed into wireless PoS terminals, street parking and ticketing machines, etc. to provide communication for credit or debit card on-line transactions. The use of a M2M communication module incorporating a M2M UICC can offer a secure communication channel.

