

The logo features the word "one" in red, positioned above a large "M2M" where the "2" is a thick grey number. Below this, the word "Showcase" is written in a large, grey, sans-serif font.

oneM2M Showcase

**oneM2M Business Application across multiple
use cases and market segments**

oneM2M Showcase, 2014-12-09

Source: Telit Wireless Solutions \ ILST Technology

Showcase G

oneM2M Business Application across multiple use cases and market segments



Seamlessly connect your assets with your enterprise systems and databases



Description

- This interactive demonstration features how OneM2M supports real-time data collection and analysis across a variety of sensors (temperature, location, heart beat) in three distinct scenarios: home automation, telematics, and health monitoring or wearable technology.
 - The demonstration will be based on the OneM2M Architecture and will include the ability to send out data to an infrastructure node from simulated sensors using gateway(s) with or without cellular connectivity. The sensory data will be stored or transited based on cloud service and it will be made available to other business applications.
 - The business application(s) will interface with the infrastructure node (as a cloud service) using one of the OneM2M defined reference points. The applications will be able to retrieve, process and present data in different formats with emphasis on the ease of use and comprehension.
 - The demonstration will be hosted on a multi-tenant environment and it will take advantage of the OneM2M access right definitions.
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About Us



- 13-Year Old Company, 30 Years of History
Headquarters in Boca Raton, Florida
- 2000 – Established - IBM Industrial spin-off
- 2013 – Acquired by Telit



- Market leader in M2M wireless modules
- Operational headquarters in Trieste, Italy
- Listed in London Stock Exchange
- 8 R&D centers with over 460 engineers
- 350-person salesforce, including distributors



Pioneers in machine-to-machine communications and the Internet-of-things

Our vision: A day in the life

www.youtube.com/embed/fFqEx--b7hU



ONE STOP. ONE SHOP. – Industry's Gold Standard

To Reduce Risk, Time-to-Market, Costs & Improve Performance



Issues and Challenges

Business

High Level of
Specialization and
Verticalization

Asset Variations

Enterprise
Application

Customer
Relationship

Proprietary
protocols

Multiple and
Various

Ownership

Vertical Knowledge

Solution
Deployment and
Rollout

Intelligent
Connectivity

Unique / Required

Slow

Not just a pipe

Issues and Challenges

Technical

Device Management



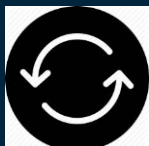
Mobile Network Operator Integration



Enterprise Integration



Data Exchange



Data in transit
at rest



Applicability



Air Time



Security



Battery Life



OneM2M Solutions

Business

Asset Variations

Easy classification of the devices

Enterprise Application

Leave the imagination to developers and the interconnection to standards

Customer Relationship

Improve communication / increase competitiveness

Vertical Knowledge

New architecture, new approach, new platform

Solution Deployment and Rollout

Easy interchangeability

Intelligent Connectivity

Add smartness to protocol

OneM2M Solution

Technical

Device Management

Dedicated Working Group

MNO Integration

Infrastructure Node

Enterprise Integration

Application are at the core

Data Exchange

Dedicated WG, Multiple
Protocols

Data in transit / at rest

Provisions in the architecture

Applicability

Enterprise expose with 7 SDO

Air Time

Protocol Footprint

Security

Active Working Group

Battery Life

Protocol Footprint

deviceWISE - m2mCloud

ILS Technology M2M Platform

Seamlessly connect your assets with your enterprise systems and databases



Good to go

deviceWISE is ready to use, off the shelf.

Simple

Point and click is all you have to do to build your app.

Comprehensive

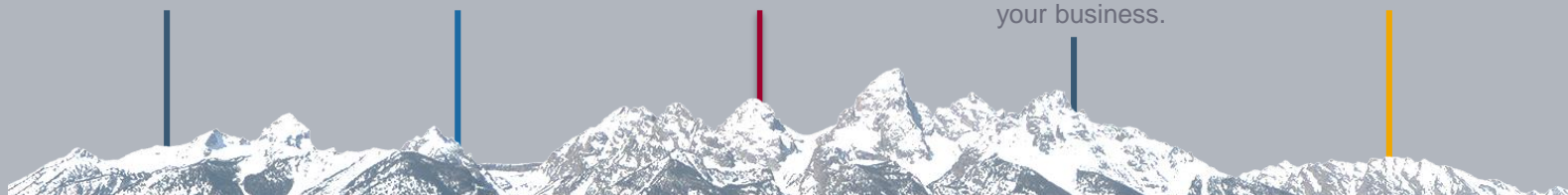
Complete your solution with trusted support from one vendor.

Integrated

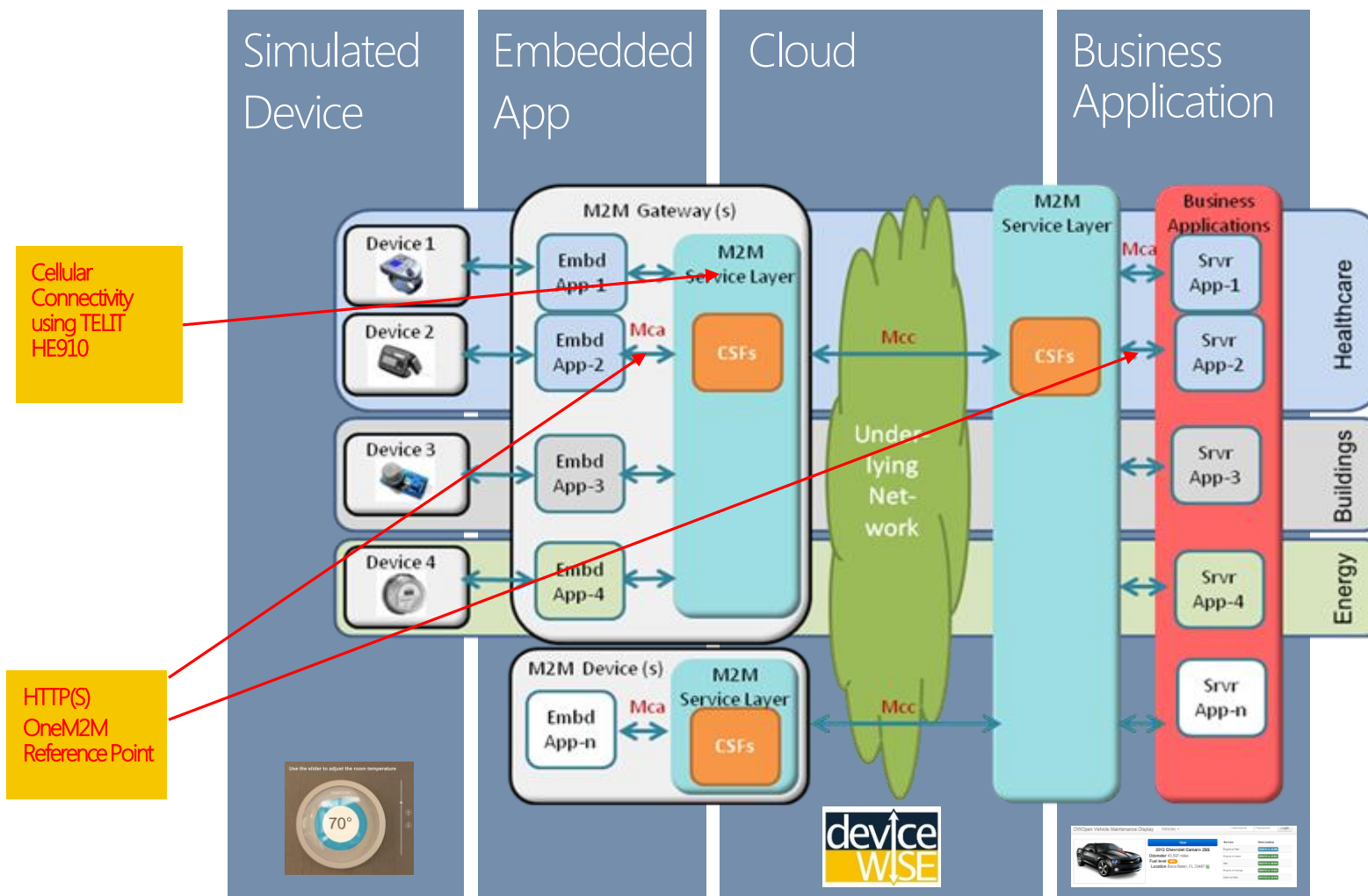
No more silos – we connect the edge right to the heart of your business.

Secure

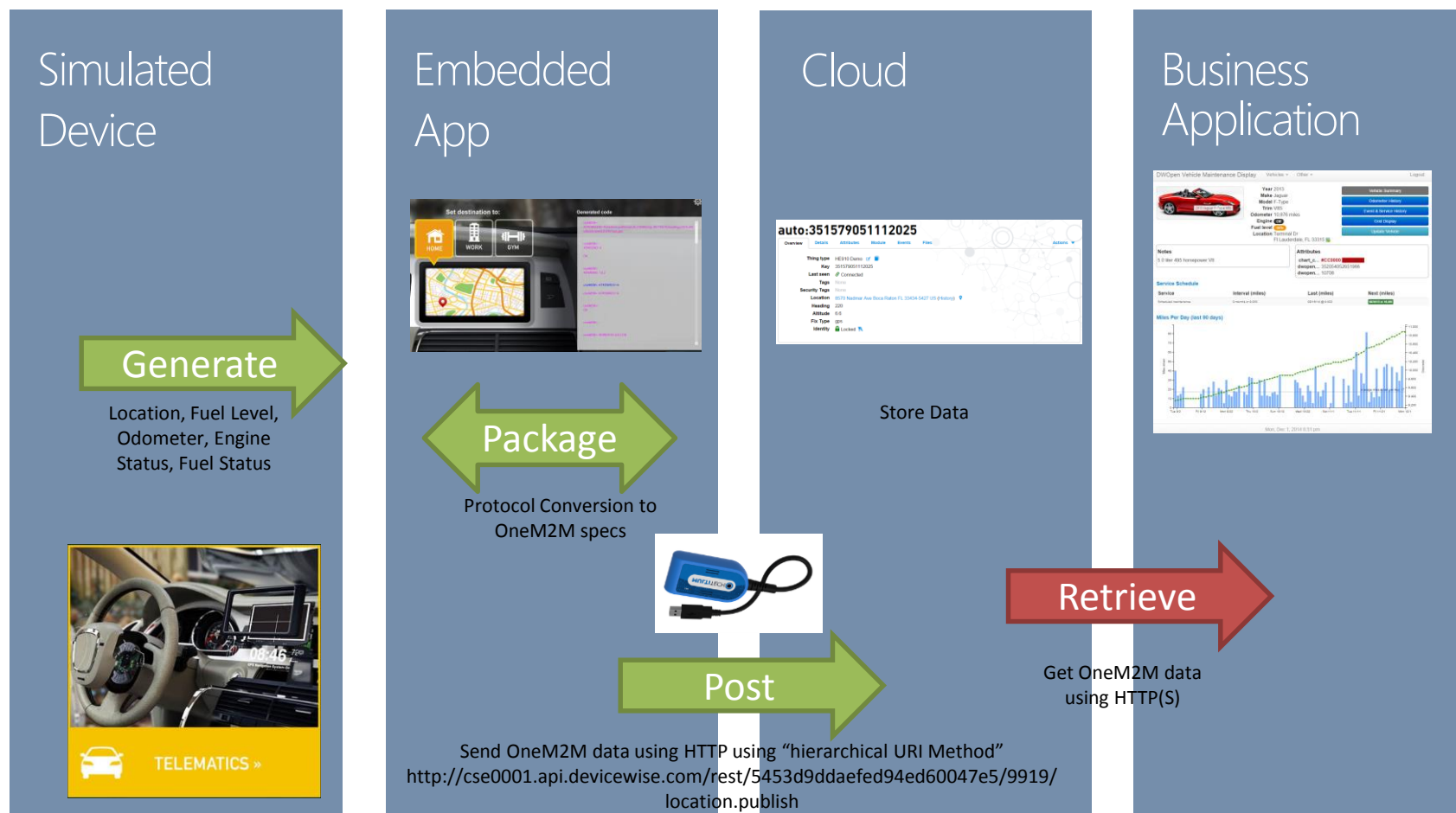
In transit or at rest, your information is protected.



Mapped Architecture

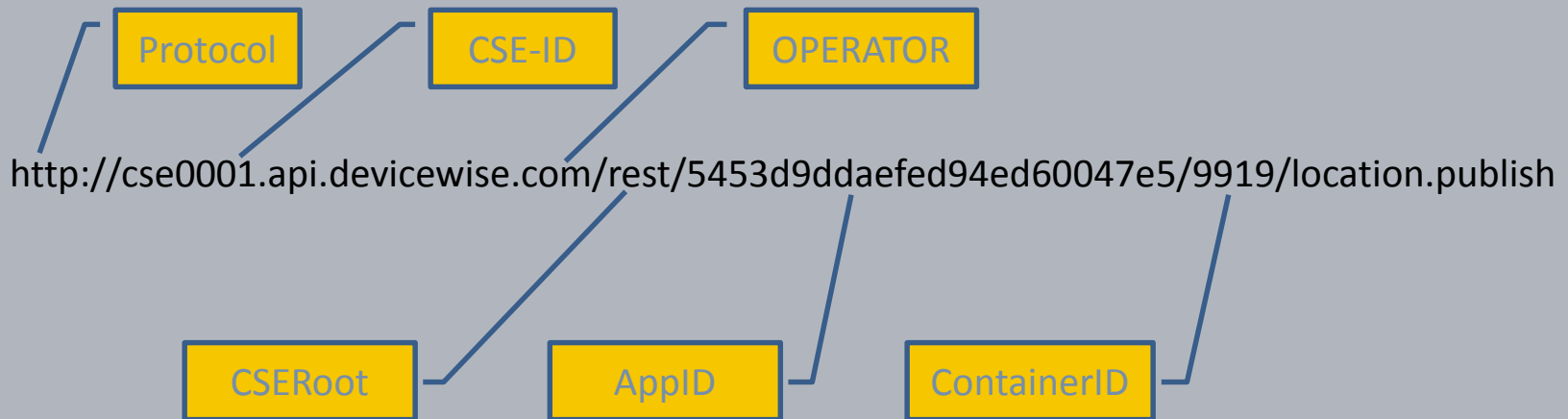


Details



Protocols Details

Mca Reference Point



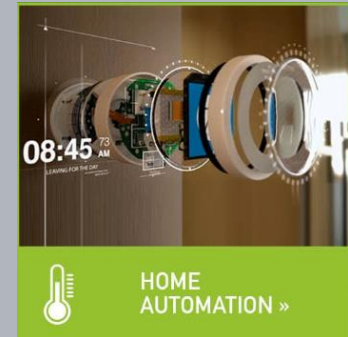
Home Automation

Embedded Application Data

Generated code

```

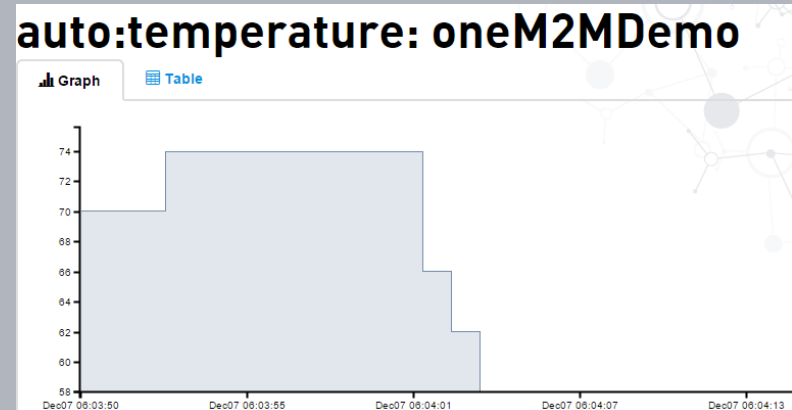
oneM2M> Set temperature to: 70°
http://cse0001.api.devicewise.com/
rest/5453d9ddaefed94ed60047e5/1121/temperature.publish
oneM2M> Set temperature to: 74°
http://cse0001.api.devicewise.com/
rest/5453d9ddaefed94ed60047e5/1121/temperature.publish
oneM2M> Set temperature to: 70°
http://cse0001.api.devicewise.com/
rest/5453d9ddaefed94ed60047e5/1121/temperature.publish
oneM2M> Set temperature to: 66°
http://cse0001.api.devicewise.com/
rest/5453d9ddaefed94ed60047e5/1121/temperature.publish
oneM2M> Set temperature to: 62°
http://cse0001.api.devicewise.com/
rest/5453d9ddaefed94ed60047e5/1121/temperature.publish
oneM2M> Set temperature to: 58°
http://cse0001.api.devicewise.com/
rest/5453d9ddaefed94ed60047e5/1121/temperature.publish
    
```



auto:temperature: oneM2MDemo

Graph Table

Date & Time	Value
2014-12-06 11:29:58 AM	70
2014-12-06 11:30:03 AM	66
2014-12-07 06:03:50 AM	70
2014-12-07 06:03:53 AM	74
2014-12-07 06:04:02 AM	70
2014-12-07 06:04:02 AM	66
2014-12-07 06:04:03 AM	62
2014-12-07 06:04:04 AM	58
2014-12-07 06:04:25 AM	70



Telematics

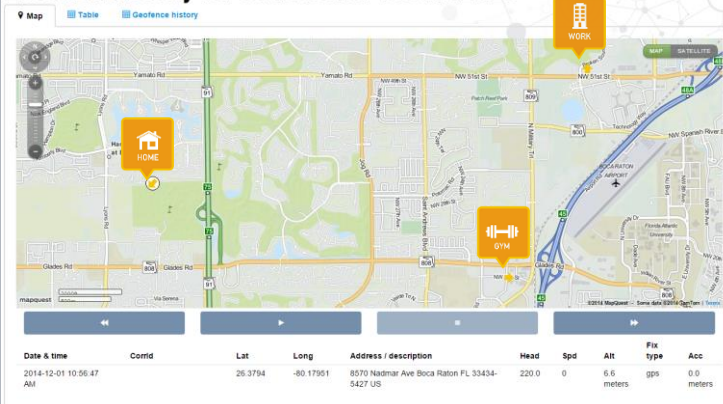
Embedded Application Data

Generated code

```
OneM2M> I am at home...
http://cse0001.api.devicewise.com/
rest/5453d9ddaefed94ed60047e5/9919/location.publish
OneM2M> I am at work...
http://cse0001.api.devicewise.com/
rest/5453d9ddaefed94ed60047e5/9919/location.publish
OneM2M> I am at gym...
http://cse0001.api.devicewise.com/
rest/5453d9ddaefed94ed60047e5/9919/location.publish
```



Location history for auto:351579051112025



Wearable Technology

Embedded Application Data

Generated code

```
OneM2M> I am sleeping... 90 BPM
http://cse0001.api.devicewise.com/
rest/5453d9ddaefed94ed60047e5/1121/
BeatsPerMinute.publish
OneM2M> I am walking... 100 BPM
http://cse0001.api.devicewise.com/
rest/5453d9ddaefed94ed60047e5/1121/
BeatsPerMinute.publish
OneM2M> I am running... 110 BPM
http://cse0001.api.devicewise.com/
rest/5453d9ddaefed94ed60047e5/1121/
BeatsPerMinute.publish
```

auto:beatsperminute: oneM2MDemo



auto:beatsperminute: oneM2MDemo

Graph Table

Date & Time

2014-12-06 11:30:24 AM
2014-12-06 11:30:25 AM
2014-12-06 11:30:26 AM

Value


90
100
110

Download CSV

Application

Business Application

DWOpen Vehicle Maintenance Display



Year 2012
Make Chevrolet
Model Camaro
Trim 2SS
Odometer 43,600 miles
Fuel level 46%
Location 5300 Broken Sound Blvd NW
 Boca Raton, FL 33487-3520

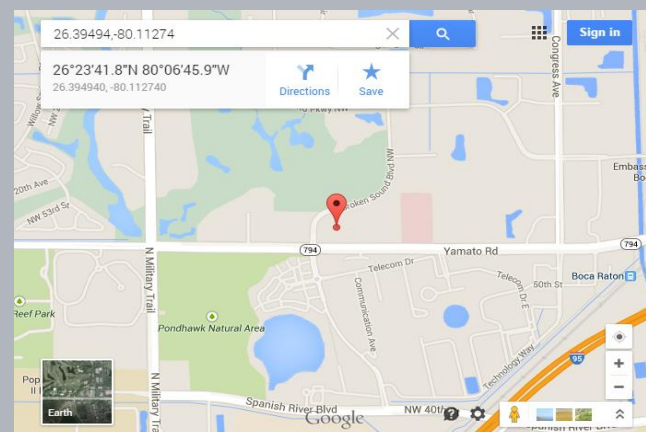
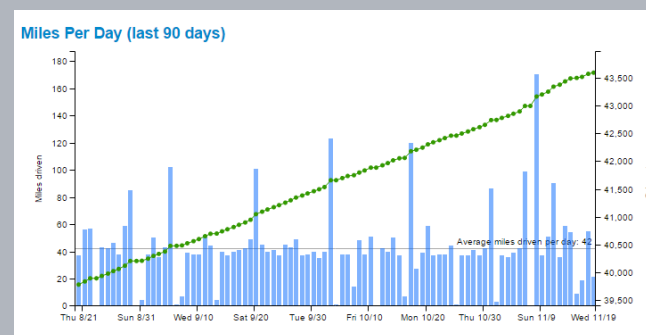
[Vehicle Summary](#)
[Odometer History](#)
[Event & Service History](#)
[Grid Display](#)
[Update Vehicle](#)

Notes
[Specifications](#)
 5th Generation (2010 - Present)
 45th Anniversary Edition
Engine
 400HP L99: 6.2L V8 VVT

Attributes
 chart_color #333333
 dwopen_key 359138032572021
 dwopen_offset 28



Service Schedule

Service	Interval (miles)	Last (miles)	Next (miles)
Engine air filter	3 years or 45,000	04/05/12 @ 0	04/05/15 or 45,000
Engine oil check	3 months or 3,000	11/01/14 @ 42,661	02/01/15 or 45,661
Wax	3 months or 3,000	11/15/14 @ 43,443	02/15/15 or 46,443
Engine oil change	9 months or 9,000	11/01/14 @ 42,661	08/01/15 or 51,661
Cabin air filter	1 year or 22,500	01/11/14 @ 30,243	01/11/15 or 52,743
Differential axle fluid	3 years or 45,000	03/27/14 @ 34,027	03/27/17 or 79,027
Transmission fluid	4 years or 45,000	03/27/14 @ 34,027	03/27/18 or 79,027
Spark plugs	5 years or 97,500	04/05/12 @ 0	04/05/17 or 97,500
Radiator fluid	10 years or 150,000	03/27/14 @ 34,027	03/27/24 or 184,027



Demo


Business Application

OneM2M Demonstration




08:45 73 AM
LEAVING FOR THE DAY




HOME
AUTOMATION »




08:46 73 AM
GPS Navigation System



TELEMATICS »



08:46 73 AM
GPS Navigation System



WEARABLE
TECHNOLOGY »



Thank You!

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