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th Indo-European Conference on Standards & Emerging Technologies

7th December 2023 | The LaLiT, New Delhi, India

THE ROLE OF ONEM2M ENABLER FOR SMART CITIES Roland Hechwartner, oneM2M TP Chair, Deutsche Telekom roland.hechwartner@magenta.at



Smart Cities: Use IoT Technologies to Improve the Quality of Life for Citizens



- various devices and sensors
- installed throughout the urban landscape to create
- intelligent transportation systems
- smart grids
- public safety systems

Source: Statista Market Insights 2023





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Crucial Aspects in Smart Data usage





- acceptance
- scalability
- interoperability
- security
- sustainability

An ecosystem based on open standards and certification programs is expected to be essential for the acceptance and wide adoption



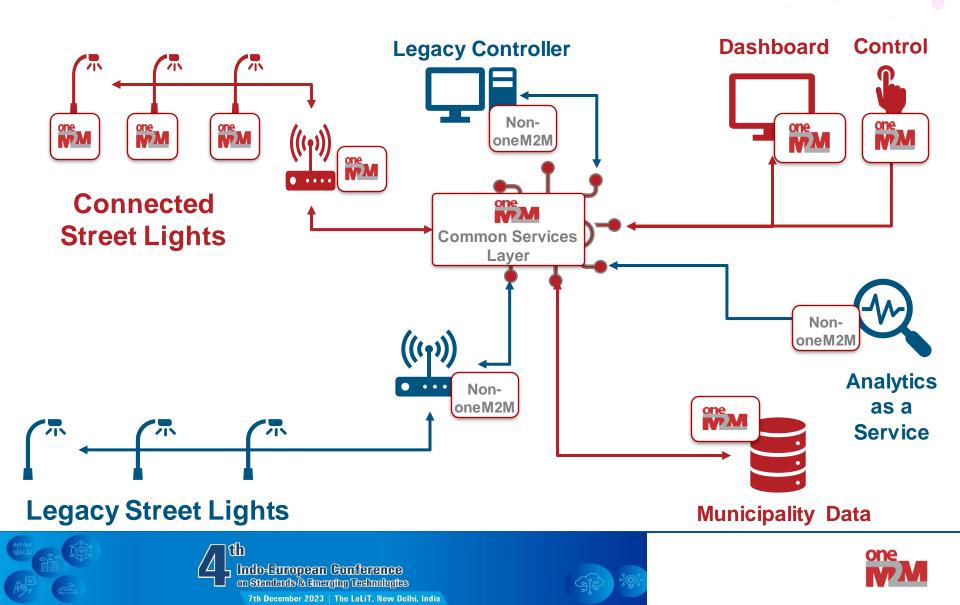






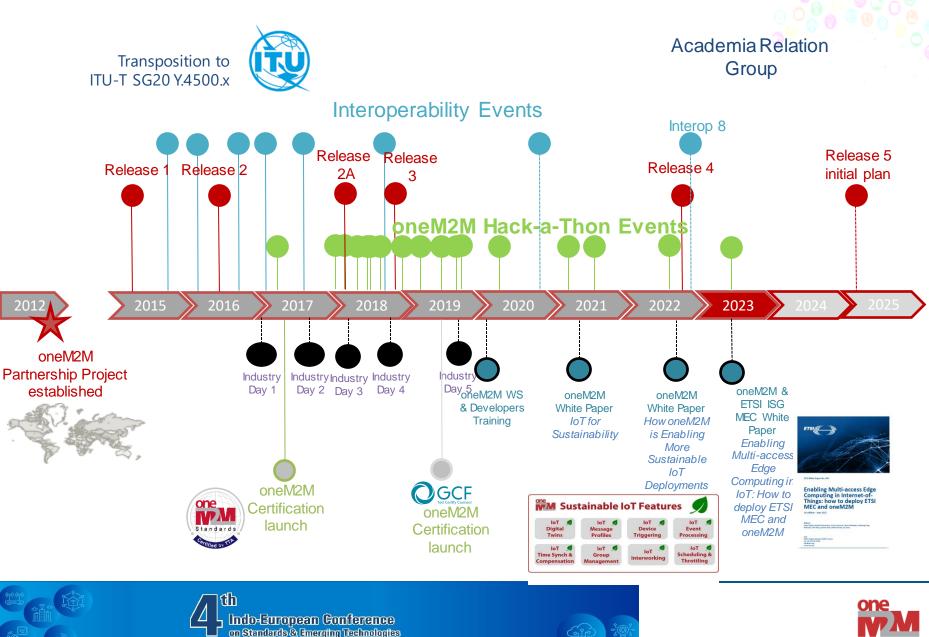
The Role of oneM2M for Smart Cities

oneM2M links distributed components and technologies in e2e IoT systems



oneM2M Key-Events Timeline

7th December 2023 | The LaLiT, New Delhi, India



oneM2M Future Feature development

Studies, Use Case and Requirements development

- Al enablement
- Support of Data Protection Regulations

Release 5

- Support of Data License Management
- Smart City and Enterprise domain enablement enhancement
- Enhanced Public Warning Service Enabler
- Information Model enhancements SDT4.0
- Additional Interworkings (e.g. OGC's Sensor Thing API)
- Advanced Semantic Discovery
- Effective IoT Communication to Protect 3GPP Networks (cont'd)
- Enablement of IoT in the Metaverse







REQUIREMENTS TS-0002

TECHNICAL SPECS



Executive Viewpoints

https://www.onem2m.org/membership/executive-viewpoints

"oneM2M provides a very solid architectural foundation in terms of interfaces and data structures. It is built for interoperability and is very flexible."

Andre Dutra, Deutsche Telekom

"Using oneM2M, our data hub collects and links data for a hundred different services. We plan to export it to other local governments."

Seon-woo Yi, nTels

"oneM2M has been evolving continually and solutions to common problems faced by the IoT industry are incorporated quickly in its specifications."

Апирата Chopra, с-*D*от



"We rewrote our proprietary system to use oneM2M's open standard and now operate at scale, meeting over 99% of our customers' reporting metrics and delivering over 3 billion meter reads daily"

Ray Bell, Aetheros





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$\begin{array}{c} \textbf{THANK YOU} \\ \textcircled{0} \textcircled{0} \textcircled{0} \textcircled{0} \textcircled{0} \\ \hline \end{array} \end{array}$

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For more information ...



visit www.oneM2M.org

Executive Viewpoints - https://onem2m.org/insights/executive-viewpoints

oneM2M in the News - https://onem2m.org/news-events/newsmenu/onem2m-in-the-news

Technical Specifications - <u>https://onem2m.org/technical/published-drafts</u>

List of open source projects - <u>https://wiki.onem2m.org/index.php?title=Open_Source</u>









