

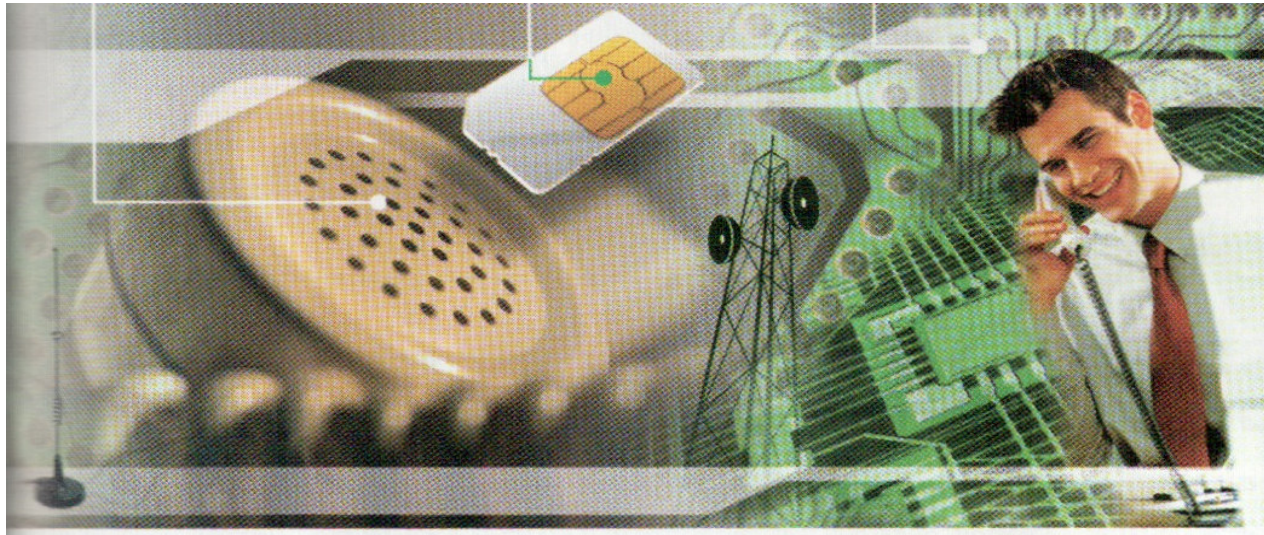


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MACHINE TO MACHINE COMMUNICATION (M2M)

Training Workshop : 3 Days

Workshop Agenda

Machine-to-machine (M2M) is often portrayed as a nascent industry sector. However, operators are already generating strong revenue in this sector, amounting to USD10 billion worldwide in 2013, and increasing to USD88 billion by 2023

M2M Basics

M2M Ecosystem

M2M Drivers & Challenges

M2M Wireless Architecture

M2M Business Applications & Industry examples

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M2M Standard Bodies

India M2M Vision & Roadmap

PART II

M2M applications and market sectors

M2M application characteristics

M2M Technologies and Frequency Bands

Grouping applications by preferred approach to spectrum use

Dominant applications in terms of traffic volume

Implications for radio spectrum of M2M market and technology evolution

M2M APPLICATIONS AND MARKET SECTORS

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M2M market forecast assumptions

Automotive

Utilities (electricity, gas, water)

Intelligent buildings and consumer electronics

Retail, manufacturing, and remote asset management

Healthcare

Smart cities

M2M market projections

M2M market development scenarios

Approach to Market Development Scenarios

Definitions of variable scenarios (demand)



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Definitions of variable scenarios (supply)

Impact of Scenarios on overall M2M market in 2022

ANALYSIS OF M2M APPLICATION AND DEVICE CHARACTERISTICS

Key Characteristics of M2M Applications and Devices

Application Characteristics relating to transmission range

Application Characteristics relating to bandwidth

Application Characteristics relating to Quality of Service

Other characteristics that may affect spectrum use

M2M TECHNOLOGIES AND FREQUENCY BANDS

M2M Technologies and Standards



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Short Range M2M technologies

Wide area technologies

GROUPING APPLICATIONS BY PREFERRED APPROACH TO SPECTRUM USE

Grouping Methodology

Stage 1: Range and Coverage

Stage 2: Bandwidth and Duty Cycle

Stage 3: Quality of Service



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