



SMART
LIVING

SMART
CITIES

SMART
ENERGY

SMART
TRANSPORT

SMART
HEALTH

SMART
INDUSTRY

SMART
BUILDINGS

SMART
HOMES

APPLICATION
LAYER

IOT APPLICATIONS

VIRTUAL ENTITY

VIRTUAL ENTITY & IOT SERVICE MANAGEMENT

VIRTUAL ENTITY SERVICE

IOT BUSINESS PROCESS
MANAGEMENT

BUSINESS PROCESS
EXECUTION

BUSINESS PROCESS
MODELING

MANGMENT CAPABILITIES

GENERIC/SPECIFIC
MANAGEMENT

DEVICE MANAGER

QOS MANAGER

SECURITY

AUTHENTICATION

IDENTITY MANGMT

ACEESS CONTROL

ENCRIPTION

DATA MANGMENT

DATA GOVERNENCE

DATA QUALITY MANGMT

DATA MINING

ANLYTICS PLATFORM

IN MOTION ANALYTICS

PREDICTIVE ANALYTICS

STATISTICAL ANALYTICS

SERVICE SUPPORT
&
APPLICATION
SUPPORT LAYER

NETWORKING CAPABILITY

TRANSPORT CAPABILITY

GATEWAY
NETWORK

WI-FI

GSM/GPRS

LTE

ETHERNET

GATEWAY

EMEDDED &
SIGNALPROSESSOR

OS

SIM MODULE

MICROCONTROLLER

NETWORK /
COMMUNICATION
LAYER

SENSOR NETWORKS

WI-FI

ZigBee

ETHERNET

BLUETOOTH

UWB

WIRED

ANALOG

DIGITAL

RFID

ELECTRO-MECH

PHOTO-ELECTRIC

GPS

SOLID STATE

INFRA-RED

GYROSCOPE

ELECTRO-CHEMICAL

S
E
N
S
O
R
S

W
S
N

SMART DEVICE /
SENSOR LAYER

devices