Livon

Care in Advance

What is LivOn?

LivOn enables 'The 3rd-generation Telecare Service.' It provides Smart Monitoring on wireless networks.

BE PROACTIVE

LivOn promotes a trustable wireless monitoring system for seniors and persons with disabilities (PWDs). The activity detector suggests more sophisticated care, with none of the hassles of using a touching device. Automatic identification of meaningful changes in the ADL leads to proactive action of the appropriate service providers. Monitoring of potential emergency cases could significantly level up the efficiency of caregivers, service companies, and public organizations. Of course, the user's feeling of relief is a key factor of this system.

Trustworthy reporting in a timely manner is a key factor of quality proactive care. Traditional Personal Emergency Response System (PERS) alert service company only AFTER an incident has happened. LivOn uses several activity detector data and analytical algorithms to serve related caregivers and organizations. The accumulated user data serve as normal daily activity indexes, and certain deviations from them serve as triggers of potential emergency response from caregiving parties.

BE MEANINGFUL

Smart notification from LivOn makes caregiving parties perform the right action with efficiency. The LivOn system's capability and the caregiving parties' response capability can provide the most meaningful combination of relief for your loved ones who need care. LivOn shows a better possibility of giving proper care.

Telecare Sensors
- Help trigger
- Activity detector
- Fall detector
- Temp & humidity sensor

Safety Sensors
- Fire detector
- Gas detector
- Intrusion detector
- Flood detector
- High-resolution camera

Healthcare Sensors
- Glucose meter
- Pulsimeter
- Blood Pressure gauge
- Thermometer
- Weighing scale
- Pedometer

Smart Platform
- Analytic engine
- Caregiver application
- Monitoring application
- Family application and Smartphone app

BE SMART

How can you have Smart Telecare Service with LivOn? LivOn enables 'The 3rd-generation Telecare Service' for caregiving organizations, families, and beneficiaries. LivOn provides the most enhanced telecare devices and sensors with an adoptable service platform that includes applications and smartphone apps.

SAFE

His/her family is assured of his/her interactive safety.

Caregiving organizations enjoy effective service.

The beneficiary feels safe and connected.

How does LivOn work?

LivOn wireless base unit and sensors are installed in the user's house and connected with Service Platform.

Activity Detector
- Installed in living rooms, bedrooms, bathrooms, etc.
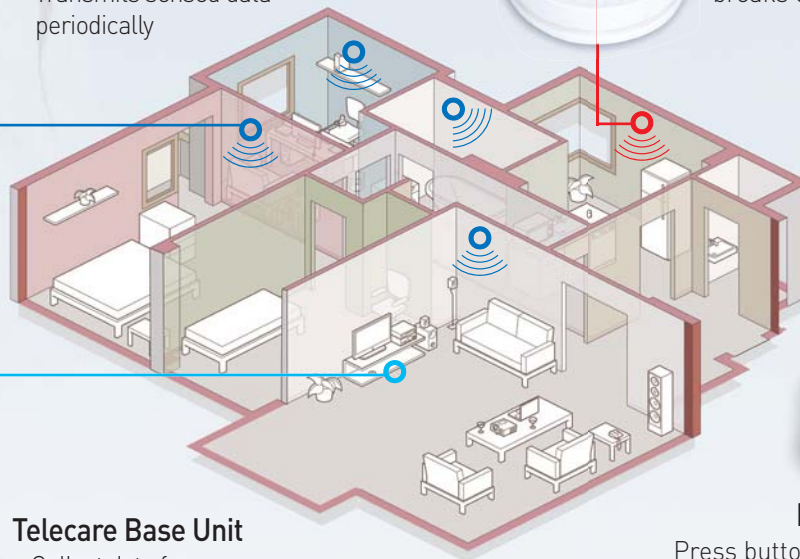- Transmits sensed data periodically

Fire / Gas Detector
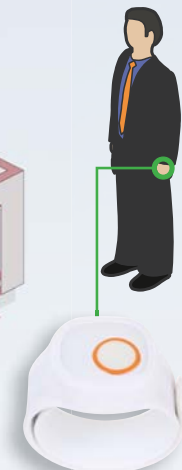Transmits detected data when an event breaks out

Health & Environment Sensors
Transmit captured data to the Telecare server through the Base Unit

Telecare Base Unit
- Collect data from various detectors
- Mobile network (LTE/WCDMA/GSM)

Help Trigger
Press button for help from anywhere in or around your home

Pedometers
Tracks movement data inside & outside the home

Mobile network (LTE/WCDMA/GSM)

Telecare Service Platform

Care Center
- Activity monitoring
- Healthcare consulting
- Environmental monitoring
- Emergency call service
- Emergency dispatch
- Reporting service

Family & Community
- Activity trend sharing
- Emergency notification and handling result

Why LivOn?

LivOn Base Unit works on wireless mobile networks (LTE/WCDMA/GSM). Its sensors are operated with a battery on ZigBee and Bluetooth networks. There is no need to invest in a wired power and network system.

LivOn is a self-diagnostic & self-management system.
It detects errors, alerts, and the battery status automatically.

LivOn uses FOTA (Firmware Over The Air) for firmware and function upgrades.
The complete update can be done remotely in minutes.

LivOn follows ZigBee and Bluetooth standards, meaning it can be expanded to various telecare and healthcare devices on the same league.

LivOn is a beautifully designed product. It is an iF 2013 Product Design Award winner. Design matters more to the elderly.

iF
product
design award
2013

LivOn has a robust and crystal-clear sound system.
LivOn's microphone and speaker are tuned to pick up and carry clear sounds even from long distances.

Telecare Era

We are at a crossroads in the supply of remote care.
More and more people need new ways of providing care for the elderly, chronic patients, and the handicapped.

Telecare technology can be the most adequate solution to these challenges because it supports an easy-to-use and dependable solution for users, care service providers, and related business entities.

By delivering safety and health devices to users and management solutions to care organizations, LivOn telecare system opens the gate to the smarter telecare service.

Telecare Base Unit

LivOn BU LTE

LivOn Base Unit works on 4G LTE mobile networks and has robust data throughput. LivOn BU LTE supports HD-quality video streaming between users and caregivers in collaboration with diverse Health, Safety, and Environment sensors.
With this feature, LivOn supports Telehealth and Remote Diagnosis beyond Telecare.

HD Camera

Tablet PC

Healthcare Sensors

Safety & Environment Sensors

Innovative Technology & Design
• 4G LTE with Wi-Fi connectivity for HD cameras
• Bluetooth connectivity for health devices
• Superior-quality microphone and speaker
• Fast Firmware Update through a wireless network. No field engineer required.
• Focused on UD (Universal Design-acquired Good Design Certification in Korea, iF Design Award) with a silicon material to enhance its convenience for elderly people

Increased Reliability & Safety
• Guaranteed connectivity at all times
• Up to 48 hours rechargeable battery backup with low battery alarm
• Both audible (voice) & visible warning generation (multi-language support)
• Periodic and server request operation status report

Error Self-detection & Management
• Battery condition control
• Power cut detection
• Radio interference detection
• Automatic H/W resetting capability when a S/W error occurs

SPECIFICATIONS

Network	4G LTE 800/900 Mhz
Communication interface	ZigBee: IEEE 802.15.4 ISM 2.4 GHz Bluetooth 3.0 and 4.0, Wi-Fi: IEE082.11 b/g/n 2.4 GHz
Power	DC 5V power adaptor (AC 100-240 V, 50-60 Hz)
Backup battery	Built-in rechargeable 3,100mAh lithium-ion battery
Speaker & microphone	Internal speaker and microphone (approx. 20 m away from the base unit) and handset
Dimensions (WxHxD)	194x194x44 mm / 880 g

Telecare Base Unit

LivOn BU 9907

LivOn Base Unit 9907 operates on wireless mobile networks (WCDMA/GSM).
There is no need for a wireline telephony network. Just plug LivOn into a power outlet and it will start working. LivOn Base Unit 9907 has a crystal-clear sound system. LivOn's microphone and speaker are tuned to pick up and carry the clearest sounds possible.

Innovative Technology & Design
• Bluetooth connectivity for health devices (optional)
• Superior-quality microphone and speaker
• Fast Firmware Update through a wireless network. No field engineer required.
• Focused on UD (Universal Design-acquired Good Design Certification in Korea, iF Design Award) with a silicon material to enhance its convenience for elderly people

Increased Reliability & Safety
• Guaranteed connectivity at all times
• Up to 48 hours rechargeable battery backup with low battery alarm
• Both audible (voice) & visible warning generation (multi-language support)
• Periodic and server request operation status report

Error Self-detection & Management
• Battery condition control
• Power cut detection
• Radio interference detection
• Automatic H/W resetting capability when a S/W error occurs

SPECIFICATIONS

	LivOn 9907W	LivOn 9907G
Network	WCDMA Single-band 2100 MHz	GSM Quad-band EGSM 850/900/1800/1900 Mhz
Communication interface	ZigBee: IEEE 802.15.4 ISM 2.4 GHz Bluetooth 3.0 and 4.0 (optional)	
Power	DC 5V power adaptor (AC 100-240 V, 50-60 Hz)	
Backup battery	Built-in rechargeable 3,100mAh lithium-ion battery	
Speaker & microphone	Internal speaker and microphone (approx. 20 m away from the base unit) and handset	
Dimensions (WxHxD)	194x194x44 mm / 790 g	

Activity Detector

LivOn AD P790

Activity Detector P790 is a key component of potential emergency alert monitoring systems and could enable caregivers, service companies, and public organizations to level up their efficiency.

Enhanced Connectivity & Operation
- Collects data for every set minute
- Transfers the collected data to the Telecare Base Unit within each set time
- Periodic two-way communication with the Telecare Base Unit to check the operational status such as the configuration info, battery level, and transmission cycle
- Daily activity reporting service via the Internet, SMS, and a Smartphone app

Increased Reliability & Safety
- Battery life up to two years
- Low-battery indication
- Embedded temperature, humidity, and brightness sensor (optional)

Innovative Technology & Design
- Different design from that of other conventional motion sensors to reduce the feeling of "I am watching you!"
- 360 Omnidirectional detection
- Low power consumption for battery operation

SPECIFICATIONS

Detection method	Passive Infrared
Communication interface	IEEE 802.15.4 ZigBee ISM 2.4 GHz
Communication range	Up to 100m Line of Sight from the Telecare Base Unit
Power	4 AA alkaline batteries
Dimensions (WxHxD)	86x86x46 mm / 165 g (battery not included)

Help Trigger

LivOn HT C550

This sleekly designed Help Trigger will be a great companion for giving help at the press of a button. Depending on your preference, LivOn suggests a pendant-type or a wristwatch-type Help Trigger that is waterproof so that you can use it anywhere. A long-life battery makes it comfortable to use.

Enhanced Connectivity & Operation
- Sends push-button messages to the Telecare Base Unit
- Periodic two-way communication with the Telecare Base Unit to check the operational status such as the configuration info, battery level, and transmission cycle

Increased Reliability & Safety
- Up to two years battery life
- Low-battery indicator (blinking light)
- Water-resistant

Innovative Technology & Design
- To avoid false alarms or no detected activities, the Telecare Base Unit automatically sets the status of the user to "Going Out" when the user leaves his/her house with the Help Trigger.
- We focus on creating compact devices with our own technical knowhow

SPECIFICATIONS

Communication interface	IEEE 802.15.4 ZigBee ISM 2.4 GHz
Communication range	Up to 100m Line of Sight from the Telecare Base Unit
Power	1 CR2032 coin cell
Accessories	Necklace and wrist band
Dimensions (WxHxD)	33x33x13 mm / 40 g (battery not included)

Fire Detector

LivOn FD S790/S800

Fire Detector S790 can detect smoke and emit an emergency alarm with automatic notification to caregiving parties.S800 detects both smoke and heat to increase accuracy and avoid false alarms.

Enhanced Connectivity & Operation
• Sends a fire detection message to the Telecare Base Unit
• Periodic two-way communication with the Telecare Base Unit to check the operational status such as the configuration info, battery level, and transmission cycle

Increased Reliability & Safety
• Ten-year battery life
• Low-battery indicator with a voice warning
• Test button for operations checking with a report to the Base Unit for status logging

Innovative Technology & Design
• Long battery life
• With the built-in speaker, a warning voice alarm can be generated for the battery level, connectivity status, and fire detection.
• Can operate even if not connected to the Base Unit (no detected data transfer to the Base Unit).

SPECIFICATIONS

	FD S790	FD P800
Detecting objects	Smoke	Smoke and heat
Communication interface	IEEE 802.15.4 ZigBee ISM 2.4 GHz	
Communication range	Up to 100m Line of Sight from the Telecare Base Unit	
Power	Built-in lithium battery	
Dimensions (WxHxD)	100x100x41 mm / 165 g (battery included)	125x125x38 mm / 190 g (battery included)

Gas Detector

LivOn GD G771/G772

Gas Detector G771(LPG) & G772(LNG) can detect the gas leakage and emit emergency alarms with automatic notifications to caregiving parties

Enhanced Connectivity & Operation
• Sends gas leakage detection messages to the Telecare Base Unit
• Periodic two-way communication with the Telecare Base Unit to check the operational status
  such as the configuration info, power connectivity status, and transmission cycle

Increased Reliability & Safety
• Test button for operation checking with reports to the Base Unit for status logging
• Can report power connectivity cuts to the Base Unit

Innovative Technology & Design
• With the built-in speaker, a warning buzzer alarm can be generated for gas detection.
• Can operate even if not connected to the Base Unit (no detection data transfer to the Base Unit)

SPECIFICATIONS

	GD G771	GD G772
Detecting objects	LPG	LNG
Communication interface	IEEE 802.15.4 ZigBee ISM 2.4 GHz	
Communication range	Up to 100m Line of Sight from the Telecare Base Unit	
Power	12V DC	
Dimensions (WxHxD)	76x113x44 mm / 320 g	

Gas Shutoff Device
LivOn GS D750

Working with gas detectors G771 and G772 or independently, Gas Shutoff Device D750 turns off the physical gas valve to stop additional gas leakage.

Enhanced Connectivity & Operation
• Periodic two-way communication with the Telecare Base Unit to check the gas valve status data (on/off/jammed) and the operational status such as the configuration info, battery level, and transmission cycle

Increased Reliability & Safety
• Two-year battery life
• Low-battery indicator
• Test button for gas valve shutoff action with reports to the Base Unit for status logging

Innovative Technology & Design
• Can operate even if not connected to the Base Unit (no detection data transfer to the Base Unit)

SPECIFICATIONS

Shutoff method	Motor drive
Communication interface	IEEE 802.15.4 ZigBee ISM 2.4 GHz
Communication range	Up to 100m Line of Sight from the Telecare Base Unit
Power	4 AA alkaline batteries
Dimensions (WxHxD)	86x86x46 mm / 165 g (battery not included)

Pulsimeter

LivOn HB S900

LivOn Heart continuously monitors the heartbeat during exercise or in daily life.
It also sends such data wirelessly. The data will be used to monitor the elderly, the handicapped, and chronic disease patients.

Enhanced Connectivity & Operation
• Periodic two-way communication with the Telecare Base Unit to check the operational status
  such as the configuration info, battery level, and transmission cycle

Increased Reliability & Safety
• 48-hour battery life
• Low-battery indicator

Innovative Technology & Design
• Movement compensation algorithm using a three-axis acceleration sensor
• Convenient to wear with its wristband

SPECIFICATIONS

Measurement method	PPG (photoplethysmography)
Measurement site	Forearm with an arm band
Communication interface	IEEE 802.15.4 ZigBee ISM 2.4 GHz
Communication range	Up to 100m Line of Sight from the Telecare Base Unit
Power	Built-in rechargeable 240mAh lithium polymer battery
Operation temperature	5-40°C (41-104°F)
Dimensions (WxHxD)	55x57x16 mm / 56 g

Telecare Service Platform

LivOn TSP

LivOn TSP (Telecare Service Platform) is a S/W solution for care organizations, family members, and beneficiaries. LivOn provides an adoptable service platform that includes applications and smartphone apps for the most effective and efficient use of LivOn products.
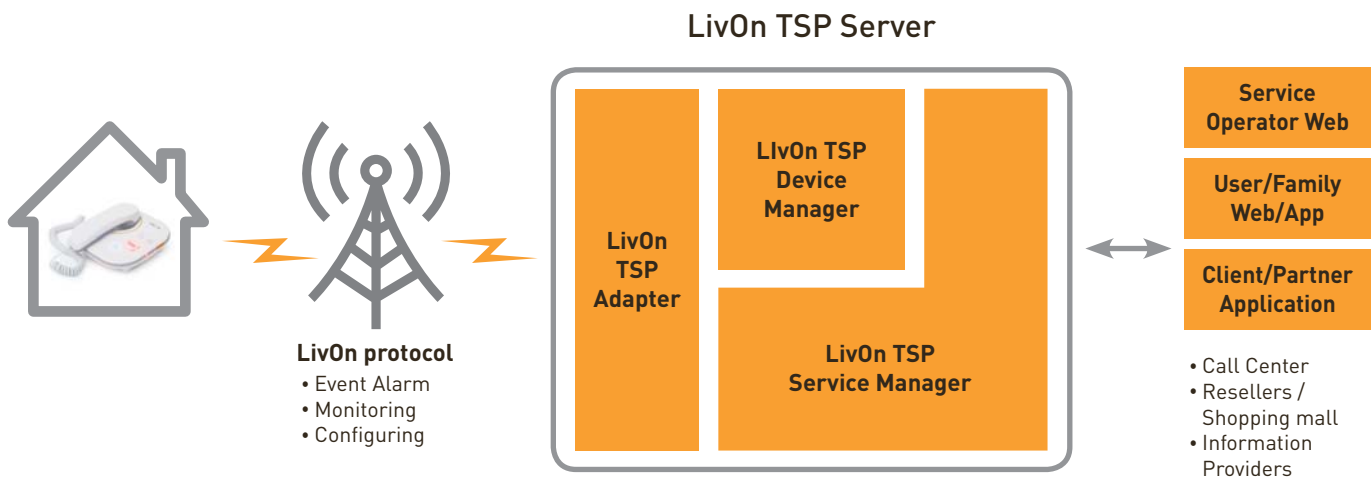
LivOn TSP Server

LivOn TSP Server is a service application for telecare service operation.
It has three modules: TSP Adapter, TSP Device Manager, and TSP Service Manager.
Device Manager handles device configuration, firmware control, and data collection from the Base Unit.
Service Manager covers emergency events processing, user administration, and user interface.

LivOn TSP Server

LivOn protocol
- Event Alarm
- Monitoring
- Configuring

LivOn TSP Adapter

LIvOn TSP Device Manager

LivOn TSP Service Manager

Service Operator Web

User/Family Web/App

Client/Partner Application

- Call Center
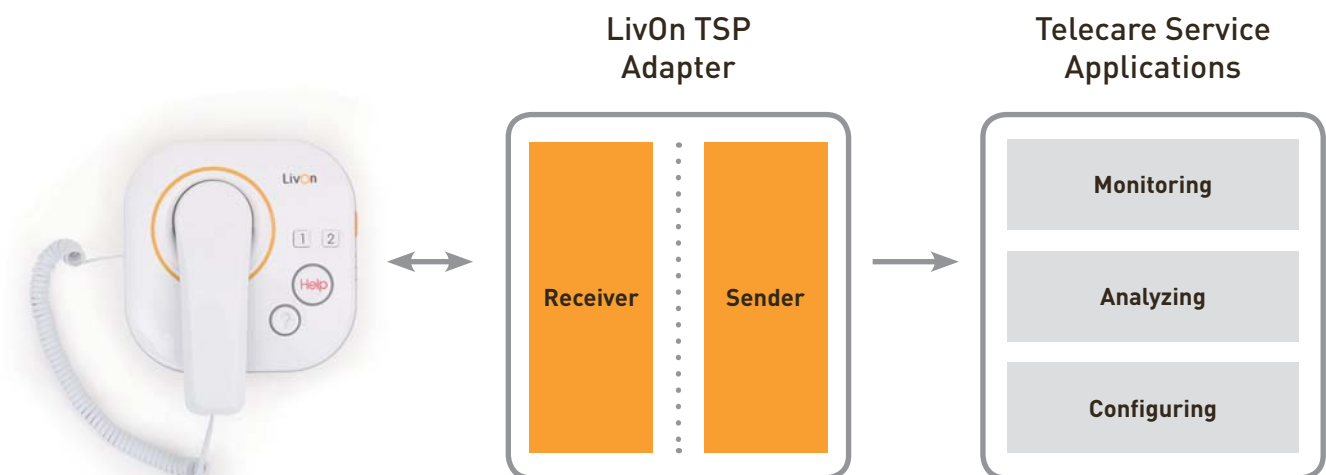- Resellers / Shopping mall
- Information Providers

LivOn TSP Adapter

LivOn TSP Adapter ensures successful message transactions between the Server and the Base Unit.
Then it works with the existing Telecare Service Applications of care organizations.
It also provides independent changes on both the device and service sides.

LivOn TSP Adapter

Receiver

Sender

Telecare Service Applications

Monitoring

Analyzing

Configuring

LivOn TSP Web

LivOn TSP provides Web applications for care organizations, monitoring staff, and families of beneficiaries. With this Web application, users can manage the entire Telecare service with related parties.

Caregiver Applications
- User administration
- Device management (configuration & operation)
- ADL (Activity of Daily Life) monitoring
- Health data monitoring
- Emergency management
- System administration

Family Applications
- ADL (Activity of Daily Life) monitoring
- Health data monitoring
- Emergency alerts and reports

LivOn TSP App

LivOn TSP App is an easy and intuitive smartphone app for families of beneficiaries. Through this app, family members can know interactively how well the beneficiary is.

Family App
- ADL (Activity of Daily Life) monitoring
- Health data monitoring
- Emergency alerts and reports
- User preference configuration