

OpenSG | Overview

Hightech solution, Consulting and SI Service
based on Microsoft .NET Technology For Automation

2021.04



OpenSG Corporation

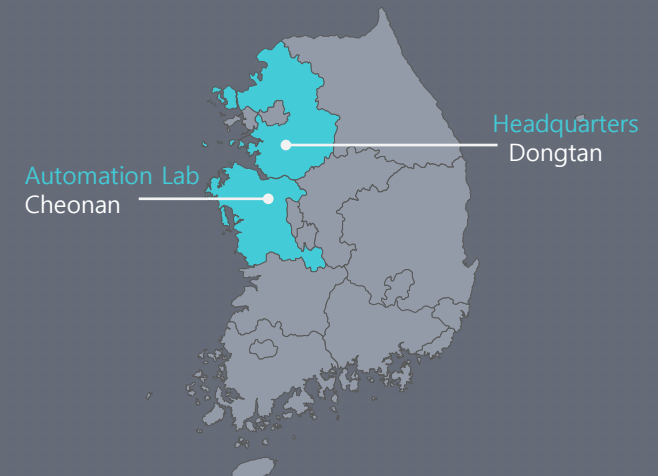
CEO	Younglae Chung
Date of Establishment	23, Jan, 2007
Capital	KRW ₩100,000,000
Business Areas	Manufacturing automation solution development/supply, Microsoft new technology consulting/education
Number of Employees	60
'20 Sales	KRW 6.5 billion
Website	http://www.opensg.net

Headquarters

1201Ho, M Tower, 51-9, Dongtancheomdansaneop 1-ro, Hwaseong-si, Gyeonggi-do, 18469, Korea
T. +82-31-373-2612 F. +82-31-377-2615

Automation Lab

406Ho, 10 Baekseokgongdan 1-ro, Seobuk-gu, Cheonan-si, Chungcheongnam-do, 31094, Korea
T. +82-41-566-2612 F. +82-41-566-2613

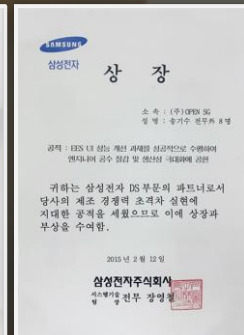
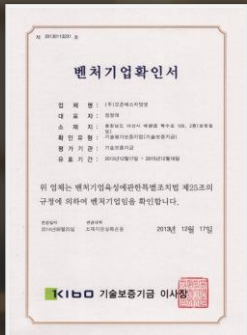


History

- 2020 Relocate Headquarters to Dongtan
- 2017 Rename to OpenSG Corp.
Establish OpenSG R&D Center in Seoul
- 2010 Relocate Headquarters to Asan
- 2009 Certified Venture Corporation by KOTEC
- 2007 Register Software Business by Software Association
Register Microsoft Gold Partner
Establish OpenSG.net Corp.

Certificate

- 2019 Selection of exemplary taxpayer _ Mayor of Asan
- Award of Business Partner _ SK
- 2018 Award of the best business _ Chungnam Technopark Association
- 2017 Certificate of Business Partner _ SK
- 2015 Contribution of EES UI Performance Improvement Task _ Samsung
Appreciation Plaque[Industry-University Collaboration] _ Hoseo University





Certificate

Registered Microsoft Gold Certified Partner(Application Development) since 2007

Microsoft Partner

Gold Application Development

(주)오픈에스지

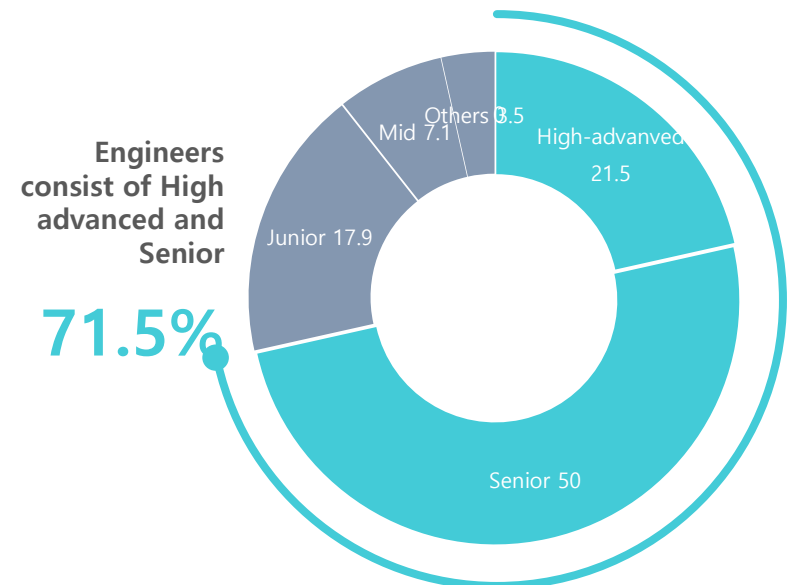
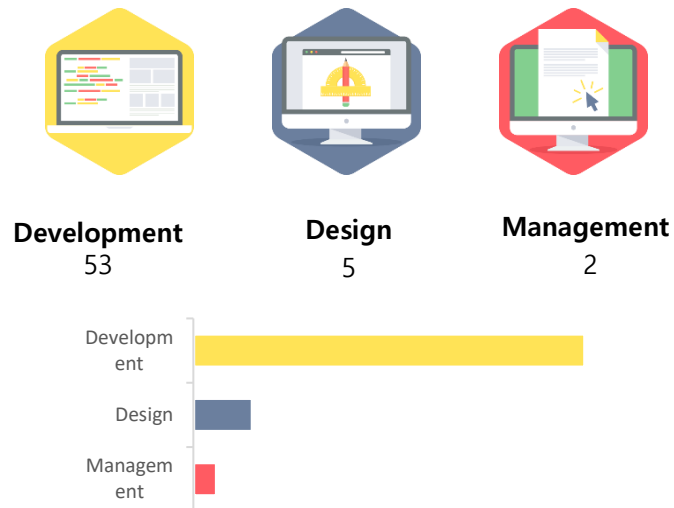
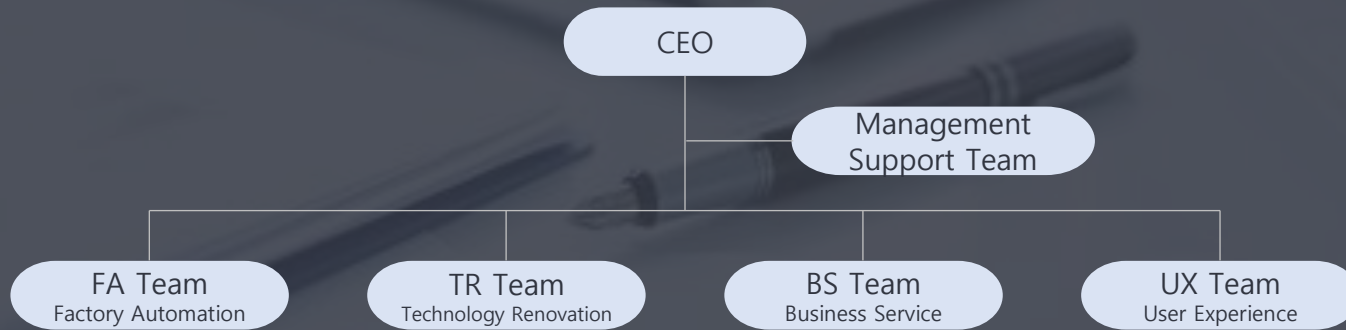
MPN Partner ID: 1932640

귀사는 마이크로소프트의 제품과 기술력을 공급하는 업체 중
탁월한 비즈니스 솔루션 개발 및 전문 기술력과 고객에 대한 사업 추진력이
인증되었기에 Microsoft Partner 로 인증합니다.

Company and Personnel Status

Experts with sufficient experience and enhanced skills

Group of professional software engineers to provide the best technical service to customers



Business Areas



**Production Automation
Solution**

Provision of customized Smart Factory
Solutions based on Technology and
Experience of OpenSG

Monitoring Solution

AIMS®

Equipment Control Solution

IDX Controller®

SCS®

ACS®



**App Development
Framework based UI/UX**

Provides personalized User Interface
and ensures fast performance and reliability

App Framework

Smart-Wox®

CCF®

Map Designer®



**Microsoft Technology
Consulting and SI**

System Construction and Education Services
based on Microsoft New Technology

.NET Technology Consulting

SI related Manufacturing

MES/Automation

.NET Technology

Education/Technical Support

Major Achievements

Control/Collection/Analysis

- 2020** SK Hynix M16 Production information System
SK Hynix Non Fab Space Planning
Rorze Systems A2 Index Standardization Program
Samsung Electronics STAR 5.0
SK siltron MCC
- 2019** SK Hynix Cloud Application Platform development
SK Hynix User-focused Engineer Workplace
Samsung STAR 4.0
Samsung OCS 4.0 Patch Automation System development
- 2018** Samsung TPSS-BEST Efficiency Improvement
Samsung Automatic Return OCS UI development
Samsung Production linked Return Simulator development
Samsung i-TTMM Function Enhancement development
Samsung STAR System Standardization and Optimization
Samsung ACS Function Efficiency
- 2017** AMHS Layout Automation of Design Verification
Samsung Electronics: Semi. MCS/OCS Management Tool
SK Hynix smartMCC Equipment Operational Condition Optimization- Analysis
SK Hynix FDC long-term Data Analysis
Mars Prime Equipment Data Utilization System Standardization
- 2016** Samsung Display : Hightech eMAS System
Samsung Electronics: Logistics Automation(MCS, OCS) System
Samsung Display : Cell Repair Reverse Stage CIM System
- 2015** Samsung Electronics: OHT Control & Monitoring System
Samsung Electronics: MCS Test Automation System
Samsung Display : Conveyor CIM System
- 2014** Samsung Display: Stocker Control System
Samsung Electronics: Self driving AGV Control System
Samsung Suzhou LCD: Robot & Automation Portal
- 2013** Samsung Suzhou LCD: Sensor EDA
Samsung Display: Robot & Automation Portal
Samsung Suzhou LCD: Indexer Control System
- 2012** Samsung Display: Sensor EDA System
- 2011** Samsung Display: Equipment Event Verification System

Monitoring

- 2020** IMS(FAB/MOD Monitoring System Improvement)
- 2019** SK Hynix Wuxi WT Standards environment
SK Hynix Chongqing SSD line
- 2018** SDV AIMS Monitoring System
- 2017** SK Hynix FAB Automation Identical Environmental Condition Phase-II
SK Hynix CMS Fab Safety Monitoring System
SK Hynix FAB Real-time Emergency Detection System
- 2016** SK Hynix P&T FMS
- 2015** SK Hynix WT Monitoring System
Samsung Display: SSL integrated monitoring Acceleration-development
- 2014** Samsung Display Control Acceleration System
Samsung Display Module line Monitoring System
- 2013** Samsung Tianjin LED: AIMS integrated Monitoring System
Samsung Heavy Industry: Ocean wind power generator Monitoring System
Samsung Suzhou LCD: Integrated Monitoring System
- 2012** Samsung Electronics TP Center: AIMS integrated Monitoring System
Samsung Display: Integrated Monitoring System
Samsung Electronics: FC Inline Equipment Monitoring System
- 2011** Samsung Electronics TP Center: AIMS
Samsung Display: Alarm Monitoring System
- 2010** Samsung Display: Automation Monitoring System
Samsung Heavy Industry: Wind power generator Monitoring System
- 2009** Samsung Display: UV fluorescence automation Monitoring System
- 2008** Visual Monitoring Toolkit Development

Major Achievements

SI

- 2020** SK Hynix Infra MA
SK Hynix smartATLAS
- 2019** SK Hynix FSM System
Samsung semiconductor CTTM
SK Hynix Integrated R&D Production Automation Operation
Samsung MCTS FrameWork Standards
- 2018** Samsung Memory Test Process Overseas Site
Production Control Framework
SK Hynix P&T Smart Factory Pilot
Samsung Tool Drawing Design Verification System Development
Samsung MCS Patch Automation System Development
SK Hynix P&T Reporting System Advancement
SK Hynix FSM System
- 2017** SK Hynix Renovation of based Biz.Process System
SK Hynix Manufacture Visibility Assurance and Decision- Support
System Ph2(PT)
Samsung Electronics TP Center Upward of quality System(YMS)
Samsung Electronics TLM System Development
SK Hynix M14 Equipment PM Automatic Computerization-Spread
- 2016** Samsung Electronics TTTM System
Samsung Electronics EES RMS UI Development
Samsung Electronics EES FDC, APC UI Development
Samsung Heavy Industries Remote Maintenance System
Steco eMonitoring System
- 2015** Yonsei Medical Center u-Severance 3.0
Samsung Electronics EES UI 2.0 Renovation
Samsung Electronics TP Center: QM System
- 2014** Samsung Electronics ME/LSI integrated TPSS
Samsung Electronics EES UI Renovation
Samsung Electronics Xian, China: QM(Quality Management System)
Samsung Electronics TP Center: MOS(Machine Operating System)
Samsung TP Center: Production/standard information system
- 2013** Samsung Electronics TP Center: IOC 2.0 for TP Center
Samsung Electronics TP Center: EES
Samsung Electronics TP Center: QM System
Samsung TP Center: TP Tool improvement for Verification/Management

Consulting

- 2017** SESS Manufacture Workplace upward leveling
- 2016** Samsung Display: Module Manufacture Innovation
Competition(Suzhou, China SSM) - Exhibition of Automation
Solution
- 2014** Samsung Electronics: Smart-Wox® Framework
- 2013** Samsung Electronics TP Center: Smart-Workplace Framework
- 2010** Samsung Electronics: Injection molding standard web platform
- 2008** Bistel Inc.: Fab Automation Framework Consulting

Main Product

Monitoring



AIMS®
Integrated
Monitoring Solution

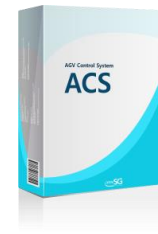
Equipment Control



IDX Controller®
INDEXER Control
System

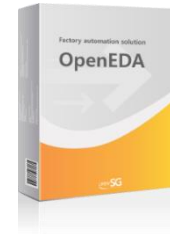


SCS®
Stocker Control
System



ACS®
AGV Control
System

Data Acquisition



OpenEDA®
Realtime EQ/Sensor
Data Acquisition System

App Framework



Smart-Wox®
Microsoft .NET
WPF & WCF based
General Application
Development &
Managing Framework



CCF®
CIM Control
Framework



Map Designer®
Map design
Solution for OHT
and AGV

Mobile



Open vTalk®
Mobile Walkie-talkie
Solution

Comm Driver



OpenHSMS®
SECS/GEM Driver

Product Descriptions

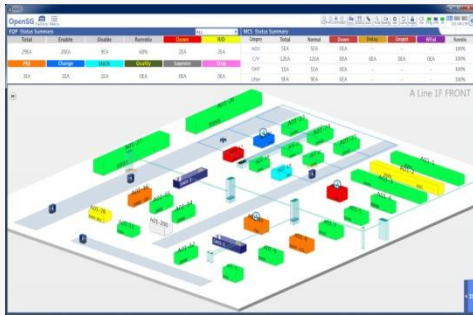
Monitoring



AIMS®

Integrated Monitoring Solution for Facilities and logistics Equipment

- Plug-in format layout
- Easy Visual Components
- Integrated monitoring for per-user needs
- Verified monitoring engine of performance
- Extend various systems of open architecture
- Multiple Protocol Responses of various Equipment



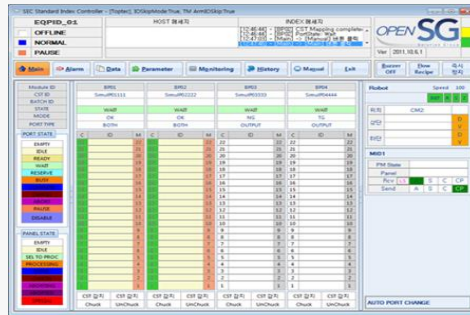
Equipment Control



IDX Controller®

INDEXER Control Logistics Equipment Integrated System

- Standardized Unified UI Configuration
- Cope with IO Module various of INDEXER product
- HSMS Driver comply with standardization SECS
- Support of communication protocol between INDEXER and Equipment
- Support of various Robot Control
- Support of various Log Format



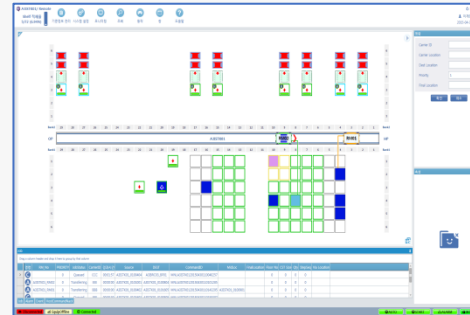
Equipment Control



SCS®

Stocker Control Remote UI System

- Various SCS Responses(Shuttle, STK, Mask)
- Remote control and monitoring via the Remote UI
- HSMS Driver comply with standardization SECS
- Organized active of Layout by XML configuration
- SCS Optimization through configuration



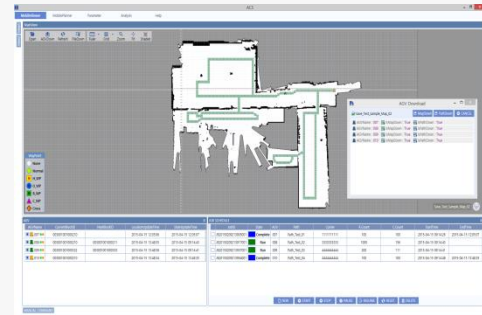
Equipment Control



ACS®

A.G.V Control System

- AGV Concurrent Control and Monitoring
- Change and transmission of Real-time routing path
- Support of settings and parameter change Reload



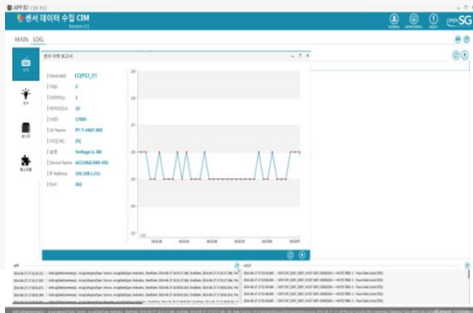
Data Acquisition



OpenEDA®

Real-time Sensor Data Acquisition and FDC Report

- Collection of various Sensor Data
- Monitoring of Field-bus status
- Independent Data Collection and FDC Reporting
- EDA Manager for Management and Monitoring of your entire system
- Support of settings and parameter change Reload



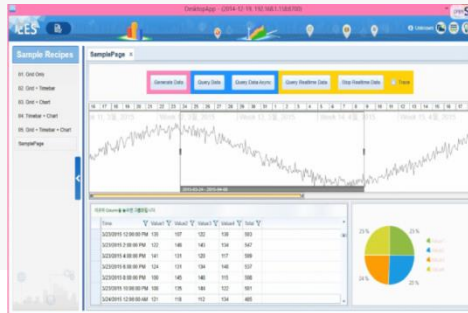
App Framework



Smart-Wox®

Development/Operation Standard Application

- Provision of personalized user interface
- Integrated Delivery of comprehensive information and contents
- Integrated login environment in conjunction with Single Sign On (SSO)
- Verified monitoring engine of performance
- Extend various systems of open architecture
- Multiple Protocol Responses of various Equipment



App Framework



CCF®

CIM Communication Framework between HOST and EQ

- HSMS Driver comply with standardization SECS
- Flexible Layout Extension
- CIM Optimization with Configuration
- Extension of Data Integration Module
- CIM Monitoring



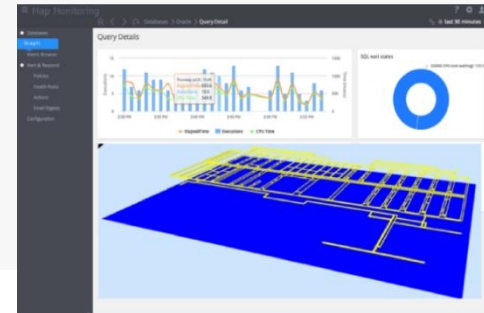
App Framework



Map Designer®

Solution to design production site

- Design of various production sites and Equipment layouts
- Import CAD file to base design file
- Define communication formats for each Equipment
- Function of Equipment CSV, CAD Export



Product Descriptions

Mobile



Open vTalk®

Mobile Walkie-talkie Solution

- Voice wireless Function provided using smart phone without additional cost of network deployment
- Real-time messages of 1:1 and 1:N
- Support of Functions Text-to-Speech(TTS)
- Device behavior control (vibration, sound) by message type received
- Chat List Information History Management
- Monitoring and Legacy System



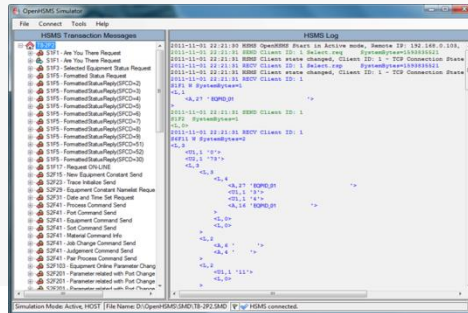
Comm Driver



OpenHSMS®

SECS/GEM Communication Driver between host and Equipment

- SECS/GEM Driver based on Microsoft .NET
- Various operation Log such as Binary, SECS-II etc.
- Compliant with SEMI communication standards
- Optimized User Needs
- Cooperative Support



Customer & Partners

As a leader in the Microsoft.NET platform of solutions development and consulting,
We'll be the best partner to help you create the business you want.

Major Customers



Major Partners

