

“Your No. 1 Passionate Partner”

[EGM] Company Profile



2015

EGM
systems

Chapter I

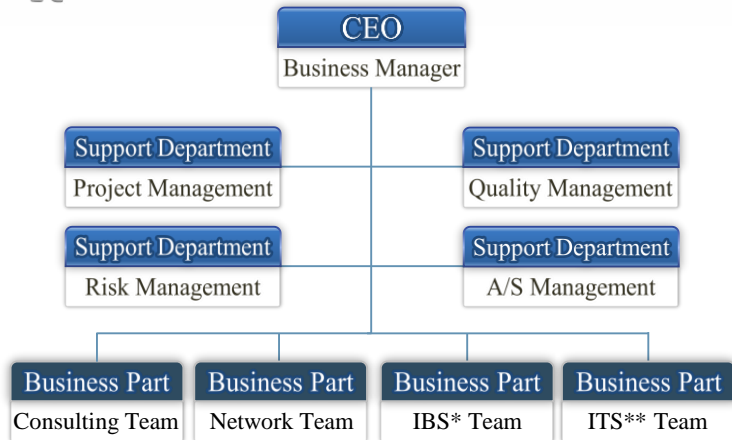
[EGM] Company Overview



1. EGM Overview



EGM's Organization Chart



* IBS : Intelligent Building System
** ITS : Intelligent Traffic System

Total : 30 Persons

The Main Business Area



The Main Partnership

FUJITSU

IBM

CISCO

JUNIPER
NETWORKS

Polycom

GAE
AUDIO ENGINEERING

Chapter II

[EGM] Business Field

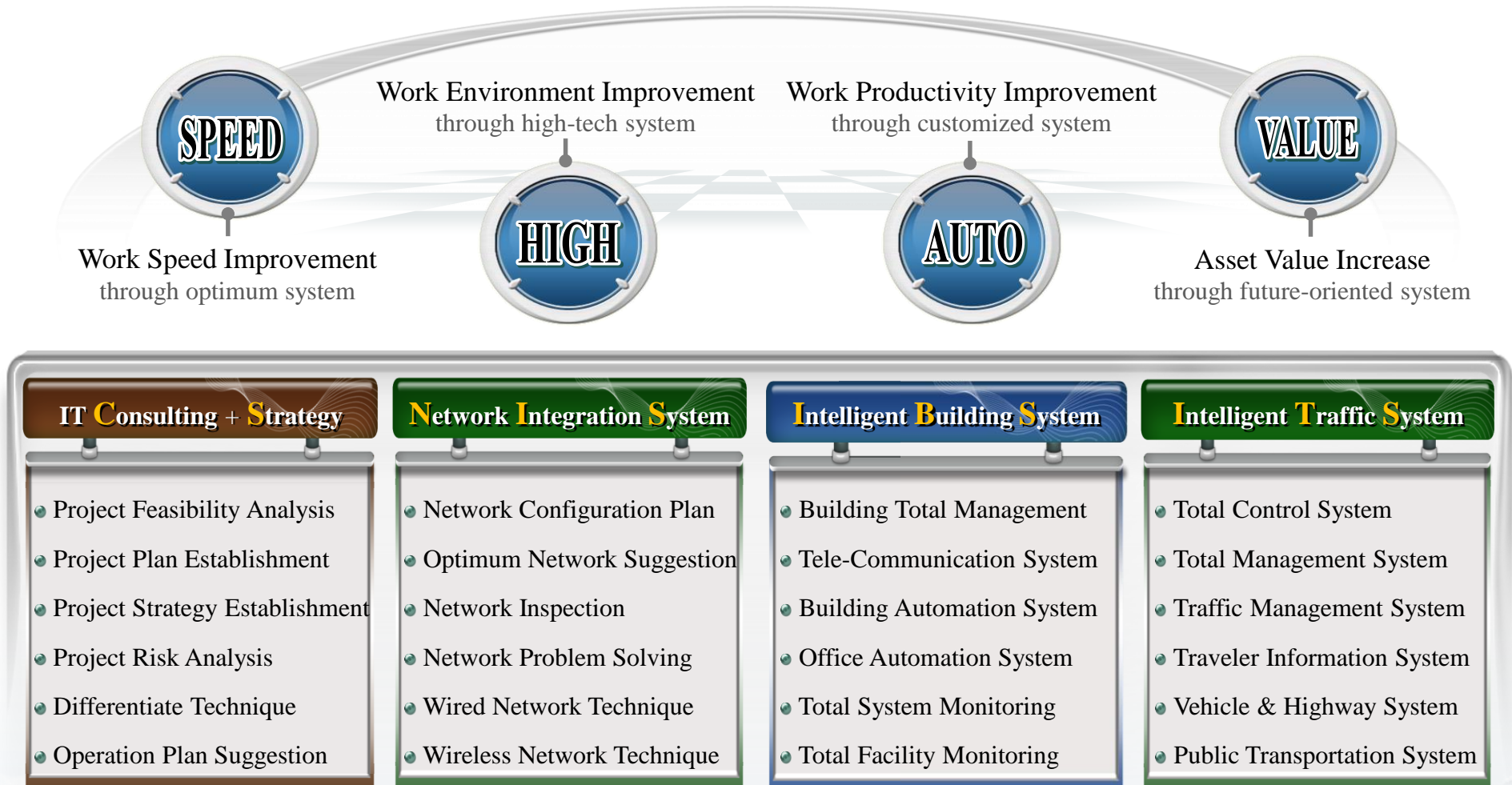
- Business Overview
- Business Field I : Network Integration System
- Business Field II : Intelligent Building System
- Business Field III : Intelligent Traffic System
- Business Methodology



1. Business Overview



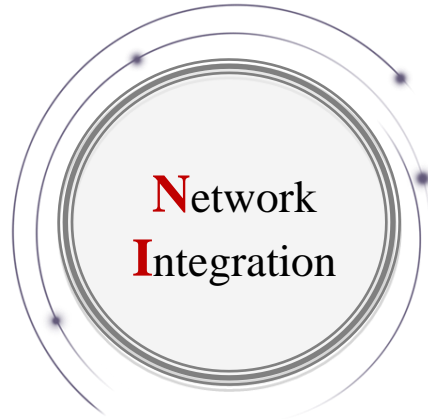
Successful [Consulting], [NI], [IBS], [ITS] System Construction



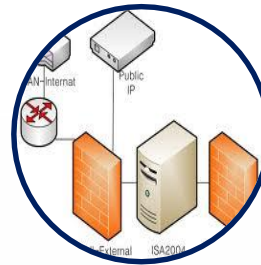
2. Business Field I : Network Integration System



Wired Network System



Wireless Network System



Security System

Wired Network System

- ① Gigabit/ 10Gigabit Network
- ② WAN Switch / IPCC
- ③ Next generation MPLS/ Core Network
- ④ Fiber Transmission : DWDM, MSPP
- ⑤ Cable Network : CMTS, DSG, DMC

Wireless Network System

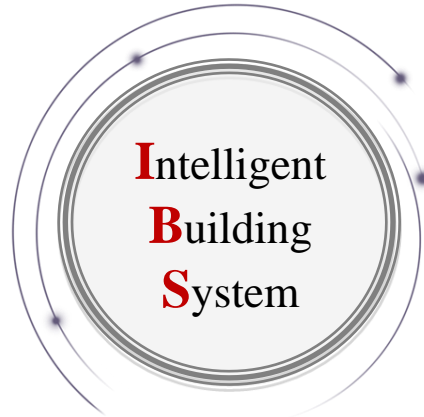
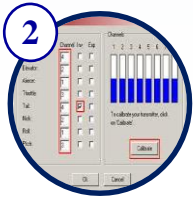
- ① Wireless Data : Mobile Office/ Telemetry
- ② Wireless Data : W-PKI/ W-VPN
- ③ Mobile Internet
 - TRS / Satellite / Wireless Network

Security System

- ① Firewall, VPN / Virus Wall
- ② Surveillance System
 - Intrusion Detection
 - Tracking System
 - Defense System



3. Business Field II : Intelligent Building System



Total SI : **S**ystem **I**ntegration

- ① SCS [Situation Control System]
- ② FMS [Facility Management System]

TC Part : **T**ele **C**ommunication

- ③ CMS [Cabling Management System]
- ④ AMS [Audio Management System]
- ⑤ RCS [Room Conference System]

BA Part : **B**uilding **A**utomation

- ⑥ WCS [Water Control System]
- ⑦ PCS [Power Control System]
- ⑧ LCS [Light Control System]
- ⑨ SSS [Situation Surveillance System]
- ⑩ ECS [Entry/Exit Control System]
- ⑪ PMS [Parking Management System]
- ⑫ AMR [Automatic Reading System]
- ⑬ RMS [Room Management System]

OA Part : **O**ffice **A**utomation

- ⑭ BGS [Building Guide System]
- ⑮ BCS [Building Clock System]

4. Business Field III : Intelligent Traffic System



ATMS (Advanced Traffic Management System)

: Traffic Situation Analysis System

- ① ETC [Electronic Toll Collection]
- ② AIM [Advanced Incident Management]
- ③ RLS [Red Light Surveillance]
- ④ ATE [Automatic Traffic Enforcement]
- ⑤ HVM [Heavy Vehicle Monitoring]

ATIS (Advanced Traffic Information System)

: Traffic Information Provision System

- ⑥ TIS [Traveler Information Service]
- ⑦ RGS [Route Guidance Service]
- ⑧ TRIS [Traffic, Road Information Service]

APTS (Advanced Public Transportation System)

: Public Transportation Information System

- ⑨ PTM [Public Transportation Management]
- ⑩ PTIS [Public Transportation Information Services]

AVHS (Advanced Vehicle & Highway System)

: Intelligent Traffic Information System

- ⑪ AHS [Advanced Highway System]
- ⑫ AVS [Advanced Vehicle System]
- ⑬ HMM [Hazardous Material Monitoring]

Chapter III

[EGM] Main Project Case

- Case I : Construction and Housing Development Bank IBS System
- Case II : The National Assembly Building AV System
- Case III : The Hyatt Hotel IBS System
- Case IV : Yong-In Total Security System
- Case V : KIPi Network System
- Case VI : Daegu Cyber University HD Broadcasting Studio System
- Others



1. Project Case I : CHDB* IBS System

* Construction and Housing Development Bank



Project Overview



Construction and
Housing Development
Bank
IBS System
(Myanmar)

1. Project Title : Construction and Housing Development Bank IBS System (Design & Construction)
2. Project Period : Sep.2013 ~ Feb.2014
3. Design & Construction System
 - Building Security System, Audio(PA) System
 - Access Control System, Conference System
 - IP PABX System, Fire Alarm System
 - CATV System, Structured Cabling System
4. Contract Amount : 3M USD

Building Security System



- Building area check (inside, outside)
- Intruder surveillance
- Fire alarm system
- Intrusion sensor
- Security or special zone surveillance

Audio (Broadcasting) System



- Auto emergency broadcasting
- Announcement broadcasting
- Panic button
- Control audio volume
- Auto dial system

Access Control System



- Unauthorized person check/control
- Property protection
- Visitor control
- Access control
- Access leveling (zone and group)

Conference System



- High-quality Audio and video system
- LCD projector
- Screen (elevation)
- High-power speaker
- CCTV system
- CD/DVD system

IP PABX System



- All IP based PABX system
- PMS interface system
- IP phones
- Voice messaging and mail system
- Auto error sensing

Structured Cabling System



- Organized cabling structure system
- High-speed infra. communication
- High-performance wired network
- Simple maintenance

1. Project Case : CHDB* IBS System_cont.



IBS* 4 PART, 15 SYSTEM

Total SI : System Integration

- ① Access Control System
- ② Intrusion Sensor System
- ③ CCTV System

TC Part : Tele Communication

- ④ CATV System
- ⑤ IP PBX(IP-Phone) System
- ⑥ IDF System
- ⑦ UPS(AVR) System
- ⑧ Structured Cabling System
- ⑨ Network System

BA Part : Building Automation

- ⑩ Fire Alarm System
- ⑪ PA System
- ⑫ HVAC(Air Condition) System
- ⑬ Fire Fighting System

OA Part : Office Automation

- ⑭ Audio/Video System
- ⑮ Conference System

* IBS : Intelligent Building System

2. Project Case : The National Assembly Building AV System



Project Overview



The National
Assembly Building
AV System
(Myanmar)

1. Project Title : The National Assembly Building AV System (Design & Construction)
2. Project Period : July.2010 ~ Dec.2010
3. Design & Construction System
 - Audio / Video System / Display System
 - Total Control System
4. Contract Amount : 5M USD

Audio (Conference) System



- High-quality voice broadcasting system
- High-intelligibility broadcasting system
- High-power speaker
- Overcome the audio reverberation

Audio (Broadcasting) System



- Auto emergency broadcasting
- Announcement broadcasting
- BGM broadcasting (Background music)
- Selection audio

Video (Conference) System



- Live high-definition video system
- Pan/tilt camera
- HD camera
- Video signal control
- Multi-PDP(display) video support

Video (Monitoring) System



- Real-time monitoring
- Rapid response in the event situation
- Intelligent detection and monitoring
- Situation video data recording

Display (MPDP) System



- Ultra-thin screen
- Various screen division
- BIC Technique (Burn in compensation)
- AGAR Technique (Anti-Glare Anti-Reflection)

Control System



- Total management
- Situation monitoring
- Facility monitoring
- Building environment monitoring / check
- Prompt situation recognition

3. Project Case : The Hyatt Hotel IBS System



Project Overview



Resort Hotel
Hyatt Regency
Vladivostok
Hotel IBS System
(Russia)

1. Project Title : Hyatt Regency Vladivostok Hotel IBS System (Design)
2. Project Period : Feb.2011 ~ Oct.2011
3. Design System
 - Audio/Video System, IP Television, IP PABX
 - LAN, Cabling System, Stage Lighting System

Project Construction Process

- Improving customer satisfaction thorough research and analysis of the clients' claims which leads to increase the design reliability.
- Planning the optimum system for the site with the on-the-spot survey based on the methodology.
- Providing the convenience for the operation and maintenance with the operation system suitable for the each site from anticipating and analyzing the hotel accessibility. (Improving the asset value)

Audio/Video System



- High-quality Audio and video system
- Auto emergency broadcasting system
- High-power speaker
- Touch screen system
- CD/DVD system

IP Television System



- Excellent HD equipment
- Customized UI for client operation
- Mainly IP based TV&MATV
- UPS system

IP PABX System



- All IP based PABX system
- PMS interface system
- IP phones
- Voice messaging and mail system
- Auto error sensing

LAN System



- High-speed infra. communication
- High-performance wired network
- Redundancy built within core switch
- 100Gbps bandwidth

Structured Cabling System



- Organized cabling structure system
- Gigabit Ethernet
- Qualified cabling system : CMS (cable management system)
- Simple maintenance

Stage Lighting System



- Multi purpose events lights system
- Interlocked with A/V system
- Coordinated batten system
- Convenient operation

4. Project Case : Yong-In Total Security System



Project Overview



Total Security System
of Yong-In City Hall
(Korea)

1. Project Title : **The City Hall of Yong-In Security System (Design & Construction)**
2. Project Period : Jun.2007 ~ Jan.2013
3. Design & Construction System
 - City/School/Park/Building/Life Security System
 - Total Security Control Center
 - Build over **1,000 CCTV cameras**
 - Build Network Connectivity for all cameras
 - Build out door Poles & outdoor box
 - Build **Control center**
(Display system, Server, Storage, Interior, etc)
4. Contract Amount : **over 20 M USD**

City Surveillance System



- City crime prevention
- Road surveillance
- Facility monitoring
- Rapid response in the event situation (fire, emergency etc.)
- Video data recording

School Surveillance System



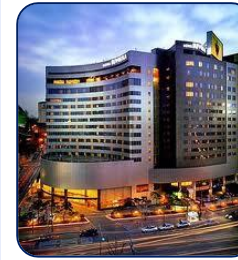
- Children protection from kidnapper
- School(children) zone surveillance
- Emergency bell operation in the event situation

Park Surveillance System



- Park pedestrian/user monitoring
- Flooding river check
- Park facility check
- Environment check
- Emergency situation monitoring

Building Surveillance System



- Building monitoring
- Building trespasser surveillance
- Perimeter security (fence and wall etc.)
- Intelligent detection and surveillance

Life Surveillance System



- Interior space check (corridor, elevator etc.)
- Intruder surveillance
- Facility monitoring
- Emergency bell
- Security or special zone surveillance

Access Surveillance System



- Unauthorized person check/control
- Property protection
- Visitor control
- Access control
- Access leveling (zone and group)

5. Project Case : KIPI Network System



Project Overview



Network System
of Institute of Patent
Information
(Korea)

1. Project Title : Institute of Patent Information Network System (Design & Construction)
2. Project Period : Mar.2010 ~ Dec.2011
3. Design & Construction System
 - Network Configuration
 - Network Maintenance

Project Construction Process

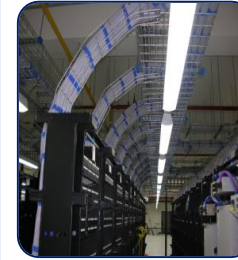
- Securing the reliability with appropriate operating network construction by pre-analyzing
- With network designed and constructed to be effective and stable, realizing the external service
- Constructing network environment in the Data Center suitable for patent browsing service, IP, integration center environment.
- Providing the stability by adopting high-performance and high-availability equipment.

[Search System] Network Configuration



- Backbone dualization
- Workgroup dualization
- Server dualization
- Firewall system
- Web-firewall system
- IPS system
- Router system

Network Construction



- Center network construction
- Office total cabling construction
- Cat.6 UTP
- OM3 fiber
- Network wiring

[IP Total Center] Network Configuration



- Total center network system of patent information service
- Inside network system
- DMZ network system
- Server farm system
- Network security

Network Maintenance



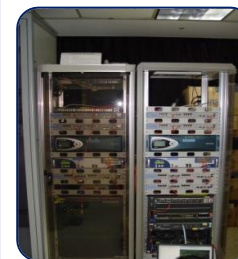
- Non-stop network maintenance
- Network equipment maintenance
- Security equipment maintenance
- Cabling maintenance

[Data Center] Network Configuration



- Data center network construction
- UPS system
- CRAC system (computer room air conditioner)
- FMS system (facility management system)

Main Equipment



- Backbone : Cisco 6509
- Server farm
 - Cisco 4507R
- L4 switch
 - Alteon 3408E
- Security equipment
 - Future firewall
 - Sniper IPS

6. Project Case : University HD Broadcasting Studio System



Project Overview



HD Broadcasting
Studio System of
Daegu Cyber University
(Korea)

1. Project Title : Daegu Cyber University
HD Broadcasting System (Design & Construction)
2. Project Period : Aug.2010 ~ Oct.2010
3. Design & Construction System
 - HD Contents System / Broadcasting System
 - Virtual Studio / Lighting System

Project Construction Process

- Adopting the high-tech FULL HD equipment and operating technical variety to be commensurate with the state-of-the-art studio condition.
- Maximizing the equipment utilization with selecting the devices designed to the beginners according to the spot characteristic.
- Constructing the operator-centric high-tech system
- Adopted various equipment for producing broadcast contents to attract the user's interest.

HD Contents System



- Full HD system
- Various contents environment provision
- Manless system
- Rapid video handling
- High-definition video
- Tapeless technique

Broadcasting Recording System



- Multi-view system for easy operation
- 2D, 3D recording
- All in ONE system
- Real-time recording
- High-definition video recording

Virtual Studio System



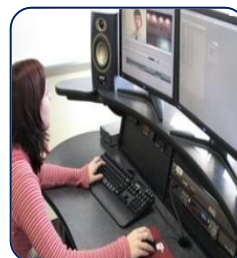
- Virtual studio space/ environment provision
- Realistic broadcasting display (Background)
- Specialized studio lighting system
- High-tech camera

Real-time Live System



- Real-time Live broadcasting system
- Concurrent-access operation system
- Various codec support (wmv, avi, h.264)
- Multi-channel system

Broadcasting Editing System



- Professional editing program for various contents
- Real-time broadcasting editing system
- Simple operation to high-capacity video

Broadcasting Lighting System



- Multi-lighting system for various contents
- Move line lighting
- Lighting system for various effects
- Simple operation of lighting change

7. Project Case : Others



World Bank in LAO PDR



World Bank Building in LAO.PDR

1. Project Title :

ELV Building for WorldBnk in LAO. PDR

2. Project Period : MAY.2014 ~ FEB.2016
(on progress)

3 System Description

ELV contractor for make a new building

- Structured Cabling
- CCTV
- Access Control
- Fire alarm, AV system
- Network system & Connectivity

4. Contract Amount : 1M USD

Myanmar Congress



Material Supply for Myanmar Congress

1. Title : Material Supply contract

2. No of Contract :
Average 12 contracts a Year

3 System

- AV Materials
- Display Materials
- Access Control Materials

4. Contract Amount : 1M USD (Summary amount)

ICBC (Myanmar)



Access Control System

1. Project Title :

ACS Building for ICBC in Myanmar

2. Project Period : MAY.2015 ~ JUL.2015
(on progress)

3 System Description

ACS contractor for ICBC Myanamer

- Structured Cabling
- Access Control

4. Contract Amount : NDA

7. Project Case : Others



KOICA for Nicaragua



Material Supply

1. **Contract Title :** Material Supply
2. **Contract Period :** AUG.2014~ DEC.2014
3. **System Description**
 - Material Supply for development of advanced agriculture
 - KOICA ODA FUND
4. **Contract Amount :** 0.3M USD

Ministry of Security & safety



SI Project : Situation Management system

1. **Contract Title :**
Building Situation Management system
2. **Contract Period :** JAN.2015~5.2015
3. **System Description :**
Main Contractor as a System Integrator
 - Network Connectivity
 - Video Conferencing
 - Display SystemMerge all offices & government for MSS
4. **Contract Amount :** 0.8M USD

NamyangJu U-City



1. **Contract Title :**
Building u-City System
2. **Contract Period :** Sep.2014~Feb..2015
3. **System Description :**
Sub Contractor as a System Vendor
 - Network Connectivity
 - IBM Servers
 - IBM Storage
4. **Contract Amount :** 1M USD

7. Project Case : Others



INDONESIA Train Authority



1. Contract Title :

Wireless Network Connectivity for trains (#phase1)

On going project

2. Contract Period : Jul.2015~ Nov.2014

3. System Description

- Phase#1 :

From Jakarta KOTA to Bogor station

(24 stations & railway)

* Wireless Network

* Mirowave System, Billing System, etc

4. Contract Amount : 3.6 M USD

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Thank You!

EGM
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