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Integrated Product Support(IPS) Expert

## LINETECH ENG. Co., Ltd.

**Company Introduction** 





# Company Introduction Contents





## **COMPANY HISTORY**

We're becoming the leading supplier of technology in the Integrated Product Support (IPS) field



## **COMPANY HISTORY**

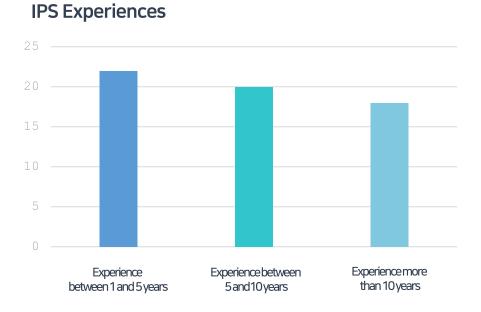
We're becoming the leading supplier of technology in the Integrated Product Support (IPS) field



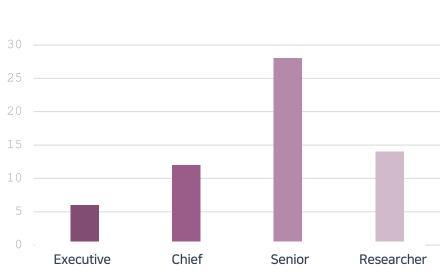
## Organization

IPS experts based on the weapon system Integrated Product Support(IPS)

development experience and R&D organization







Executive	Chief	Senior	Researcher
6	12	28	14
10%	20%	46%	24%

## Job Position

## HOLDING TECHNOLOGY

Holding specialized technology in the IPS field



## **IPS(Integrated Product Support)**

Development of IPS Elements Based on Rich Practical Experience and Professional Technology

#### **IPS Elements Development of Weapon System**

#### Naval

- Integrated Sonar System
- Optical Gyroscope
- Heavy Transport Vessel ECS
- Logistics Support Vessel Reduction Gear

#### Space & Air

- CHUNGooNG Guided Missile Loading System
- CHUNGooNG Hydraulic System
- KUH-1P Auxiliary Fuel Tank
- SIDAS
- RC-2000B Aircraft for Information and Electronic Warfare

#### **CBT/IETM**

- Division level Unmanned Aircraft(aerial) System(DUAS)
- K21 Armored Fighting Vehicle
- Smoke Generating Vehicle



#### Export

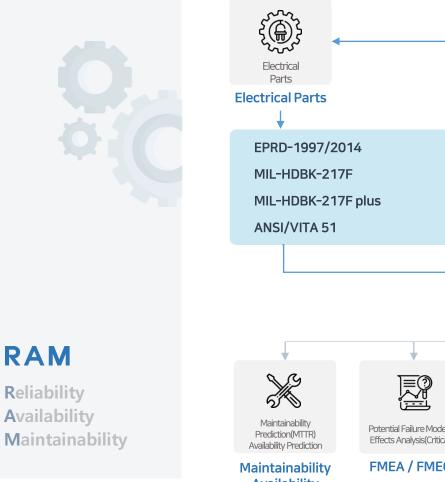
- Indonesia Export Vehicles
- REDBACK(LAND 400)
- CHUNGooNG Export
- CHUNMOO Export
- LAND 8116
- OMFV

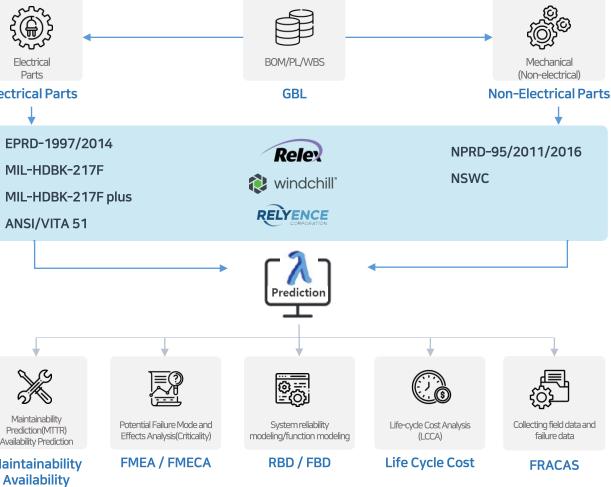
#### Land

- 501/502 Launcher
- 120mm Self-propelled Mortar
- NBC Reconnaissance Vehicle -II(NBCRV) (armored/vehicle type)
- K21 Armored Fighting Vehicle
- Next generation Recovery Vehicle
- L-SAM Loading System
- Division level Unmanned Aircraft(aerial) System(DUAS)
- 901 Launcher

## **RAM Analysis**

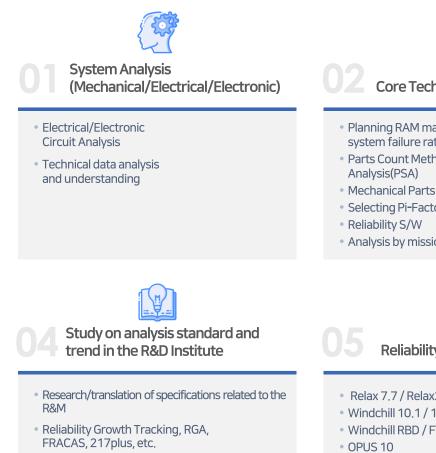
#### **RAM Work Process**





## **RAM Analysis**





- Completed Maintainability Engineering Seminar (Business Capacity Reinforcement Project)
- Participated in various seminars/researches related to the reliability



#### Core Technology for RAM Analysis

- Planning RAM management/ Calculating system failure rate
- Parts Count Method(PCM) / Parts Stress
- Mechanical Parts Reliability Analysis
- Selecting Pi-Factor
- Analysis by mission type/system operation



#### Reliability Analysis S/W(Tool)

- Relax 7.7 / Relax2007 / Relax2011
- Windchill 10.1 / 10.3 / 11.0
- Windchill RBD / FTA Package



#### Data Base for RAM Analysis

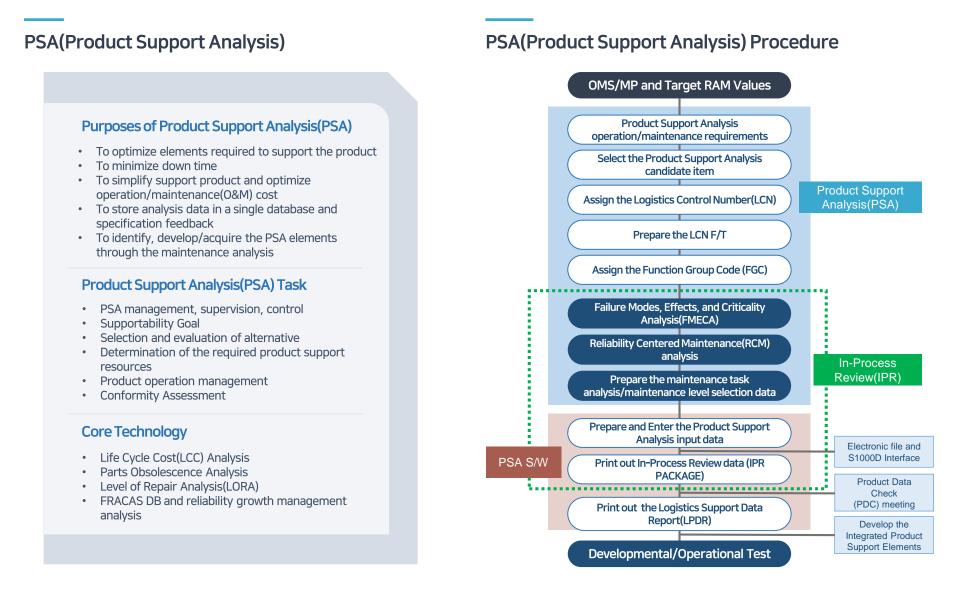
- Holding the RAM data calculated in the previous projects(Army/Navy/Air Forces)
- RAM task/analysis plan
- RAM / RAM-D analysis report / reliability worksheet
- Reliability growth management plan/life cycle analysis data
- Technical data(Catalog) DB for each part
- Searching for similar data in the PCM/PSA calculation
- Managing the Part Data Sheet



Various Analysis Experiences and **Professional Manpower** 

- RAM analysis experts with over 20 years' experience
- A lot of experience conducting the RAM Verification/Validation and Test activities in the Maintenance Depot.
- RAM calculation/analysis/verification (Army, Navy and Air Force)

## **PSA(Product Support Analysis)**



## Computer Based Training(VR/AR, CBT)

Holding professional technology in the Computer Based Training field

#### Computer Based Training(VR/AR, CBT)



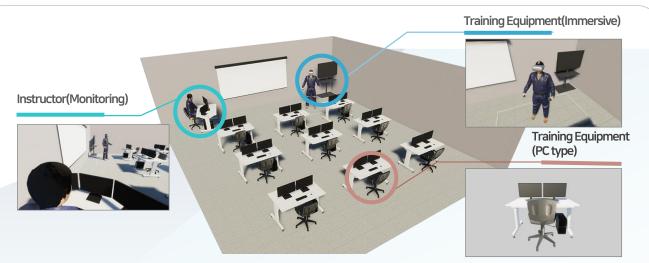
- Practical training of maintenance procedures
- Troubleshooting / Fault Isolation training
- Practical training of operating procedures
- Practical training of safety procedures
- Practical training of emergency procedures
- Equipment/System Layout study
- Practical training of removal/installation procedures
- Facility simulation
- Digital Mock-up

#### Virtual Maintenance Training System

Virtual Maintenance Training System(VMTS) is a simulation-based training tool that provides a learning environment for maintenance technicians to gain practical experience of systems and maintenance tasks.



- Creating a simulated environment, similar to a real environment in 3D VR environment
- Simulating the operating state, failure and dangerous situation of equipment in a virtual environment
- Mastering maintenance procedures and troubleshooting/fault isolation procedures and repeated learning
- Maintenance training evaluation and Feed-back



# Computer Based Training(VR/AR, CBT)

#### Setting up the Infrastructure required to support defense export project



#### 01 PLAN Detailed plan

- Export business plan based on existing experience
- Determination of the required human/material infrastructure
- Exclusive organizations dealing with each project/country

#### R&D Research and Development

- Specialized research and study on defense export business
- Research on various specifications and S/W operation for export business
- Study on the domestic SOLOMON enhancement project

#### 3 ORGANIZATION Exclusively focused on export

- Organizations exclusively focused on export project
- Experience in export business and business link
- Fast adaptation for export business / Easy understanding

#### TRANSLATE Translation/interpreting

- Translations by expert translators
- Organization of translators with expertise in manual translation
- Extensive experience in technical manual translation

05 CAREER IPS experienced personnel

- Many employees with experience in developing IPS elements in Korea
- Many employees with experience in export business
- Many IPS development engineers who speak English fluently



EAGLE LSAR / PS (Raytheon) CONTENTA (PTC)

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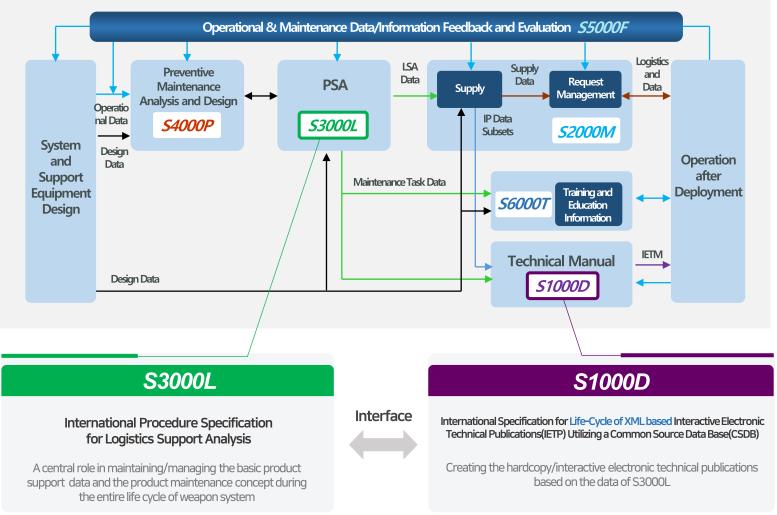
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CATIA / Windchill / RBD / OPUS10

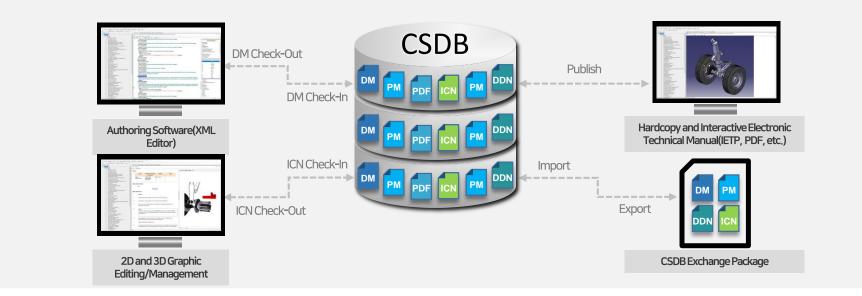
#### 7 PROCEDURE Export procedure

- Business procedures established through the export business plan
- To be applied/used to future export business

Holding International Specification S-Series SPEC Operational Capabilities and Solutions



#### S1000D Application Development and Solution & System Construction



#### Technical Manual Development Process Based on S1000D





Prepare Business Rules Plan the S1000D utilization



Create Information Sets Plan to create the technical manual (Scope and Contents)



Create DMRL Create the dictionary of Data List in advance



Generate various Data

Prepare the Data Module and Publication Module

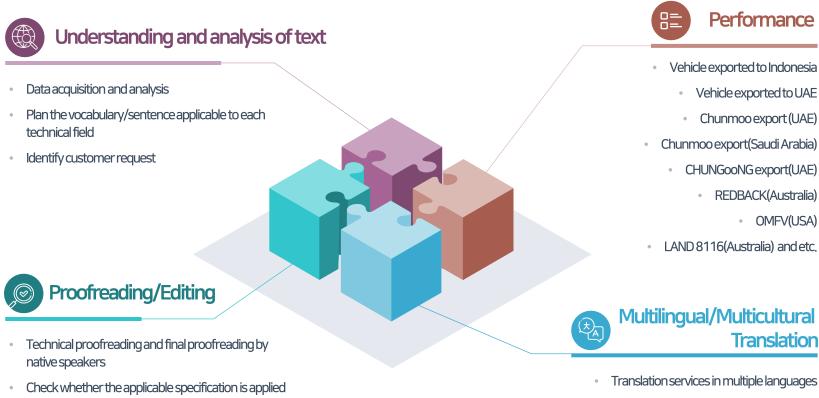


Create Technical Manual Create the Hardcopy and Interactive Electronic Technical Manual

#### **Technical Translation**

Reflect customer's opinions and requests.

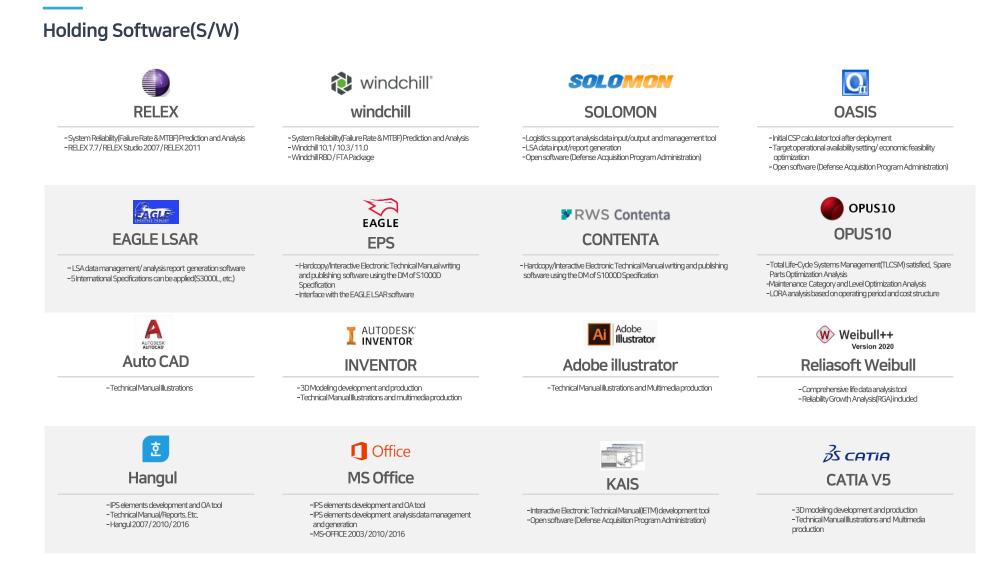
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Translation service considering the cultural
 implications for a translated text

S/W

**WS** 



## **Certification and Patent**

#### **Certification and Patent**



## Security

#### In-company Security System

#### Technical Data Security Separation of Computer Network

- Network separation between the Internet area and the security area
- Separating networks into Internal work net(Intranet) and External net(Internet), Blocking external intrusion and hackers
- Control the data transmission between the internet and the intranet and block the leakage of internal information
- In-company network(data transmission) system
- · Reinforced security policy and Infrastructure

#### Facility Security Access control for business facilities

- Real-time monitoring by installing CCTV systems outside the building
- Intrusion detection by installing the external infrared detector
- Access control using facial and fingerprint recognition systems.
- Visitor access control and management(keeping a log of visitors and issuing visitor passes)
- Security Company(S1 company) employed to ensure security at night(24-hour).

#### Computer Security Control the Use of PC

- Block removable storage
- Disable Attachment of Internet Files
- Disable Export options of software file
- Web Site Access Control/Soft Execution Management

#### Computer Security AntiVirus

- Protect all PCs from different types of malware attacks
- Powerful detection of malicious codes, Inspected and treated in real time.
- Protect the PC from malicious attacks

### Education on technical data security and protection

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Provide regular education and training to protect and secure the technical data

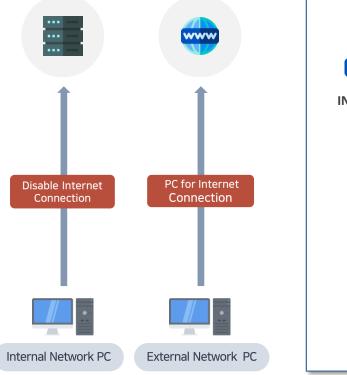
Conduct security training twice a year

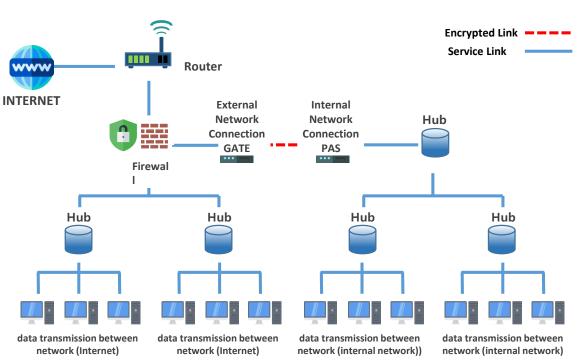
Security

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## Security

#### Built the In-company Network/Internet Network Disconnection(Network Connection System)





Network Connection(Disconnection) System Diagram

Security

#### Installed Security Equipment Inside/Outside the Building (Using S company's security system)

Installed security equipment inside/outside the building

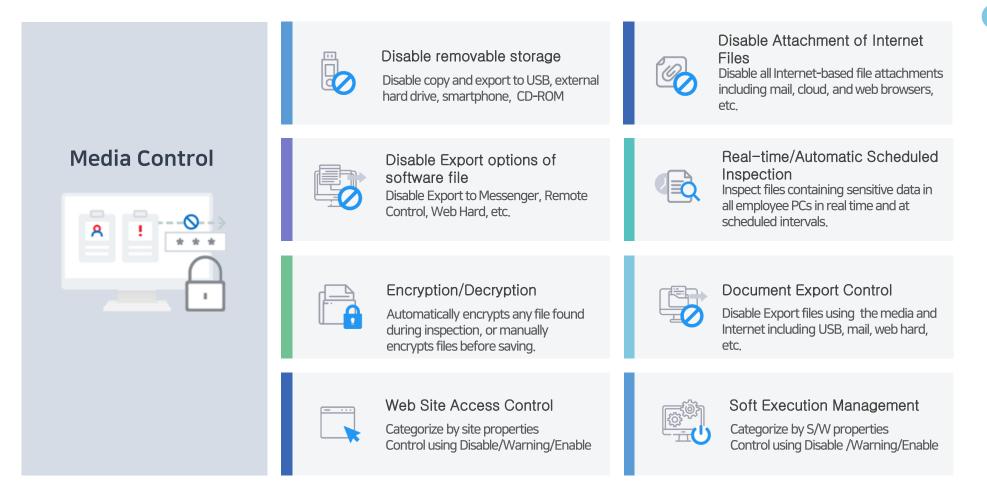


#### Access control (Using S company's security system)



Security

#### Computer(Technical Data) Security





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