PANORAMA
GRAHA TEKNOLOGI

44 Years
ANNIVERSARY
1976 - 2020

COMPANY PROFILE

PT PANORAMA GRAHA TEKNOLOGI

CERTIFIED ISO 9001:2015 COMPANY

KAN Komite Akreditasi Nasional

GARUDA SERTIFIKASI INDONESIA

Office: Graha Mas Pemuda Block AB 7, Jalan Pemuda, Jakarta 13220, INDONESIA,
phone: +62-21-475 6788 ■ fax: +62-21-475 1688 ■ email:sales@panorama.co.id

Solutions

DAFTAR ISI

- **Overview**
- Visi & Misi
- **Sejarah Perusahaan**
- Sertifikat & Penghargaan Perusahaan
- **Struktur Organisasi**
- Fasilitas
- **Sertifikat Tenaga Ahli**
- Proses Kerja
- **Pengalaman Pengembangan**
- **Produk**
  - *Radar Upgrade & Optimization*
  - ***Avionics Testing with ATE-2000 System***
  - *Air Traffic Visualizer & Analyzer*
  - ***Avionics System Learning with Advanced Avionics System Trainer***
  - *GIS Data Within an Integrated 3D & 2D Environment*
  - ***Secure Multiplatform Communication System***
  - *Maritime Integrated Surveillance System*
  - ***IP Remote Radio***
  - *HF Communication Radio for Aircraft Flight*
  - ***Vessel Traffic Services***
  - *Multipurpose Simulation Systems*
- **Roadmap**
- Foto-Foto Aktivitas
- **Penutup**

OVERVIEW

An Overview

PT Panorama Graha Teknologi, formerly PT Panorama Timur Jaya was established in 1976, our new company name reflects the significant expansion in our business Electronics & Communications activities in ***Military, Aviation, Navigation & ICT (Information Communication Technology)***. Our operations today are more global in nature and include product lines well beyond where we began; and we are supported by certified engineers, modern workshop as well as qualified team.

OVERVIEW

Driven by Expert Knowledge

Over the years we have built up substantial technological expertise and we pride ourselves being the technical pioneers. We adopt and adapt new technologies that we believe to bring advantages to clients and work closely with both customers and principals to develop new solutions. We create a tailor made solutions!

OVERVIEW

Excellently trained staff & quality

We conduct regular training for all our staff, to ensure we are up to date in the latest Technologies and practices. We proud in our expertised staff! We are committed to the Internal Quality Assurance programme, which ensures the quality of our work and also implies a commitment for our company to strive continuously towards improving safety within our own organization as well as that of our customers.

*"Innovative applications & solutions from **Panorama Graha Teknologi** have empowered our business & operation. "*

VISI & MISI

MISI

Mengembangkan teknologi ICT (Information Communication & Technology), aviasi & navigasi secara berkesinambungan dan menjadi mitra Negara dalam mengembangkan teknologi sehingga dapat diproduksi secara lokal.

Mitra bisnis yang baik untuk pabrikan dan konsumen, tempat yang nyaman bagi karyawan untuk berkarya yang menjujung tinggi professionalisme, mampu berkompetisi secara Nasional dan maupun Internasional.

VISI

Menjadi Perusahaan yang memberikan solusi kebutuhan sistim integrasi yang tepat serta konsisten melayani kebutuhan mitra / customer yang handal dan bisa dipercaya.

MOTTO

"Technology for Better Life"

SEJARAH
PT PANORAMA GRAHA TEKNOLOGI

1976

Berdiri pada tahun 29 Februari 1976 dengan nama **PT Panorama Timur Jaya** di Matraman – Jakarta Timur dengan produk HF Military Manpack Radio.

1980

Tahun 1980 memulai perakitan VHF – UHF Military Manpack Radio , Ground to Air Radio ATC dan Pengembangan Electronic Warfare.

1990 - 2000

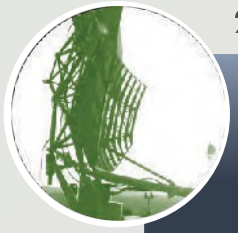
Tahun 1990 – 2000 pengembangan bisnis :

- VHF/HF Hopping Tank Radio
- Integrated Microwave for Military
- HF Base Station dengan ALE
- MEROD
- Missile Launcher
  Radio Communication

2000 - 2010

Tahun 2000 – 2010 mengembangkan bisnis :

- Marine Radio
- Port Surveillance System
- Laboratory & Teaching Aid
- TDMA Satellite Network & Inmarsat Communication
- Optical Sight



2013

Tahun 2013 mengembangkan bisnis **Radar Analysis Support System (RASS),** Aviation Engineering Lab Equipment

SEJARAH
PT PANORAMA GRAHA TEKNOLOGI

2014

Tahun 2014 bergabung dengan Perusahaan Multinasional **MultiIntegra Technology Group (MITG)** dan mengganti nama menjadi **PT Panorama Graha Teknologi**.

2016 - 2019

Tahun 2016 – 2019 mengembangkan bisnis :

- Military Aircraft Multi tester
- Aviation ATN-AMHS System
- Red Dot Sight Devices for Paramilitary
- Avionics ATE System
- ATC - Integrated Monitoring System

2015

Tahun 2015 mengembangkan bisnis Aviation Flight Following Radio

2020

Tahun 2020 mengembangkan bisnis Combat SAR Radio, dan bersertifikat ISO 9001:2015

CERTIFICATE & ACHIEVEMENT

CERTIFICATE & ACHIEVEMENT

MARKAS BESAR ANGKATAN UDARA
DINAS KESELAMATAN TERBANG DAN KERJA
(INDONESIAN AIR FORCE FLYING AND WORKING SAFETY AGENCY)

SERTIFIKAT KELAIKAN
(CERTIFICATE OF WORTHINESS)

Nomor SLAIK/306-PH/PBJ/IV/2019/Dislambangjaau
(Number SLAIK/306-PH/PBJ/IV/2019/Dislambangjaau)

Diberikan Kepada : **PT. Panorama Graha Teknologi**
(This certificate is issued to)

Alamat : **Graha Mas Pemuda Block AB-7, Jl. Pemuda Jakarta 13220**
(Whose bussiness address is)

Dari hasil verifikasi dinyatakan bahwa Organisasi ini telah memenuhi persyaratan sesuai Keputusan Kasau Nomor Kep/782/VIII/2018 tanggal 10 Agustus 2018, dan diberi kewenangan untuk dapat beroperasi serta disahkan sebagai:
(Upon finding that this Organization complies in all respect with the requirment of the decree of the Indonesian Air Force Chief Staff Number Kep/782/VIII/2018 date on 10th August 2018, and is empowered to operate as an approved)

ORGANISASI DUKUNGAN PELAYANAN
PENGADAAN BARANG DAN JASA PEMELIHARAAN/PERBAIKAN
(PROCUREMENT AND MAINTENANCE/REPAIR SERVICE SUPPORT ORGANIZATION)

dengan "rating" sebagai berikut : Pengadaan Barang dan Jasa Pemeliharaan/Perbaikan Peralatan Komunikasi dan Navigasi serta Kendaraan Khusus
(with the following rating)

Seperti dinyatakan dalam Spesifikasi Kemampuan Nomor SLAIK/306-PH/PBJ-01/IV/2019 /Dislambangjaau
(As specified in term of approval number SLAIK/306-PH/PBJ-01/IV/2019/Dislambangjaau)

Sertifikat ini apabila tidak ada pembatalan, penundaan atau penarikan kembali, akan berlaku efektif sampai dengan : **30 April 2021**
(This certificate unless cancelled, suspended or revoked, shall continue in effect until 30th April 2021)

Tanggal diterbitkan
(Date of Issue)
12 April 2019

Kepala Dislambangjaau,

Agung H. Santoso, M.Si.(Han)
Marsekal Pertama TNI

Sertifikat kemampuan ini tidak dapat diserahkan ke pihak lain. Apabila ada perubahan utama dari kemampuan dasar fasilitas atau lokasi, segera dilaporkan kepada Dinas Keselamatan Terbang dan Kerja Angkatan Udara
(This certificate is not transferable, and any major change in the basic facilities, or in the location thereof, shall be immediately reported to Indonesian Air Force Flying and Working Safety Agency)

KAN
Komite Akreditasi Nasional
LSSM 049 IDN

GARUDA
SERTIFIKASI
INDONESIA

CERTIFICATE

GARUDA SERTIFIKASI INDONESIA
hereby certify that

PT PANORAMA GRAHA TEKNOLOGI

Graha Mas Pemuda Blok AB – 7, Jl. Pemuda RT 003 RW 009, Kel. Jati, Kec. Pulogadung, Kota Adm. Jakarta Timur, Prov. DKI Jakarta

Has been audited by PT GARUDA SERTIFIKASI INDONESIA
and has implemented **Quality Management System**

SNI ISO 9001 : 2015

Scope of Registration

- Wholesale of Computers, Computer Peripheral Equipment and Software, Electronic and Telecommunications Equipment and Parts, other Machinery and Equipment, Transport Equipment
- Design and Consultation of Fire-Resistant and Protective Safety Clothing, Instruments and Appliances for Measuring, Testing and Navigation, Communication Equipment, Lenses, Optical Microscopes, Binoculars and Telescopes

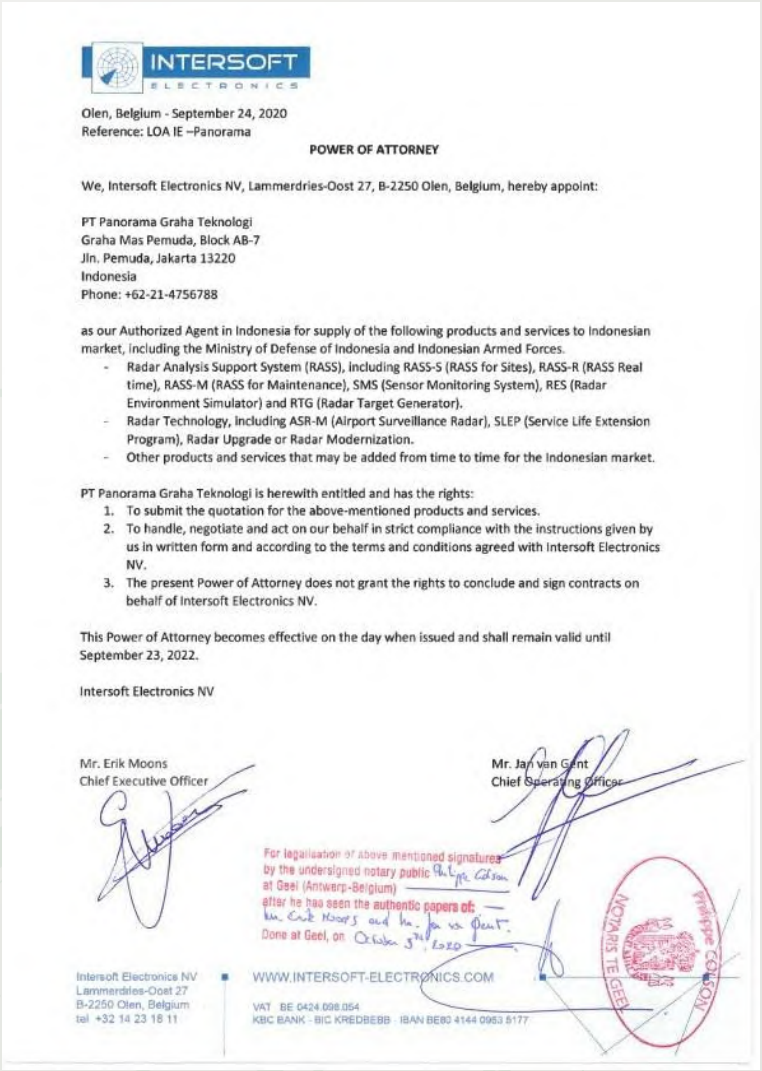
EA Code	: 29.46, 34.74
Certificate No.	: G.01 - ID0331 - X - 2020
Original Date	: 13 October 2020
Issue Date Certificate	: 13 October 2020
Planning to be 1st Surveillance	: 13 September 2021
Planning to be 2nd Surveillance	: 13 September 2022
Planning to be Renewal	: 13 August 2023
Expired Date Certificate	: 12 October 2023

DIRECTOR

To Verify the validity of this certificate please visit www.gserti.com or scan this barcode

PT. GARUDA SERTIFIKASI INDONESIA
Jl. Pidada XI, Perum Griya Loka, Kav. 11, No. 9X,Ubung, Denpasar Utara, Bali - Indonesia
Phone: 0361-8947607, Email: info@gserti.com, Website: www.gserti.com

PARTNERSHIP AGREEMENT



INTERSOFT ELECTRONICS

Olen, Belgium - September 24, 2020
Reference: LOA IE –Panorama

POWER OF ATTORNEY

We, Intersoft Electronics NV, Lammerdries-Oost 27, B-2250 Olen, Belgium, hereby appoint:

PT Panorama Graha Teknologi
Graha Mas Pemuda, Block AB-7
Jln. Pemuda, Jakarta 13220
Indonesia
Phone: +62-21-4756788

as our Authorized Agent in Indonesia for supply of the following products and services to Indonesian market, including the Ministry of Defense of Indonesia and Indonesian Armed Forces.

- Radar Analysis Support System (RASS), including RASS-S (RASS for Sites), RASS-R (RASS Real time), RASS-M (RASS for Maintenance), SMS (Sensor Monitoring System), RES (Radar Environment Simulator) and RTG (Radar Target Generator).
- Radar Technology, including ASR-M (Airport Surveillance Radar), SLEP (Service Life Extension Program), Radar Upgrade or Radar Modernization.
- Other products and services that may be added from time to time for the Indonesian market.

PT Panorama Graha Teknologi is herewith entitled and has the rights:

1. To submit the quotation for the above-mentioned products and services.
2. To handle, negotiate and act on our behalf in strict compliance with the instructions given by us in written form and according to the terms and conditions agreed with Intersoft Electronics NV.
3. The present Power of Attorney does not grant the rights to conclude and sign contracts on behalf of Intersoft Electronics NV.

This Power of Attorney becomes effective on the day when issued and shall remain valid until September 23, 2022.

Intersoft Electronics NV

Mr. Erik Moons
Chief Executive Officer

Mr. Jan van Gent
Chief Operating Officer

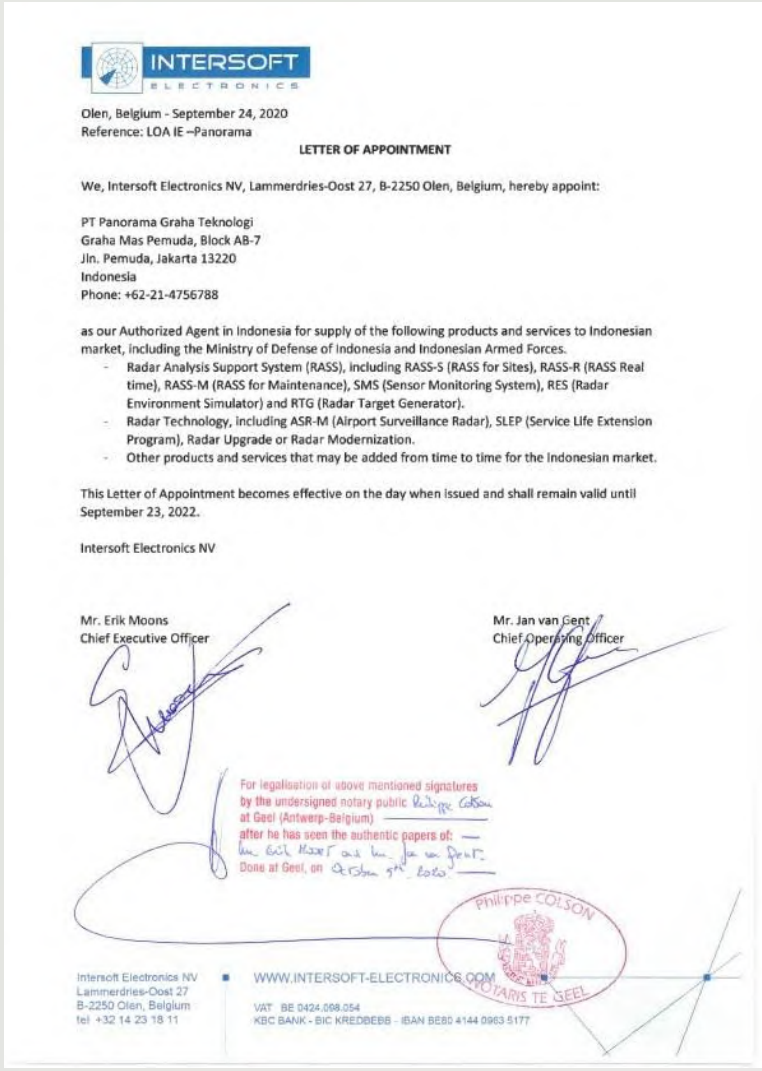
For legalisation of above mentioned signatures
by the undersigned notary public Philippe Colson
at Geel (Antwerp-Belgium)
after he has seen the authentic papers of:
Mr. Erik Moons and Mr. Jan van Gent.
Done at Geel, on October 5th 2020

NOTARIS TE GEEL Philippe COLSON

Intersoft Electronics NV
Lammerdries-Oost 27
B-2250 Olen, Belgium
tel +32 14 23 18 11

WWW.INTERSOFT-ELECTRONICS.COM

VAT BE 0424.068.054
KBC BANK - BIC KREDBEBB - IBAN BE80 4144 0963 5177



INTERSOFT ELECTRONICS

Olen, Belgium - September 24, 2020
Reference: LOA IE –Panorama

LETTER OF APPOINTMENT

We, Intersoft Electronics NV, Lammerdries-Oost 27, B-2250 Olen, Belgium, hereby appoint:

PT Panorama Graha Teknologi
Graha Mas Pemuda, Block AB-7
Jln. Pemuda, Jakarta 13220
Indonesia
Phone: +62-21-4756788

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- Radar Technology, including ASR-M (Airport Surveillance Radar), SLEP (Service Life Extension Program), Radar Upgrade or Radar Modernization.
- Other products and services that may be added from time to time for the Indonesian market.

This Letter of Appointment becomes effective on the day when issued and shall remain valid until September 23, 2022.

Intersoft Electronics NV

Mr. Erik Moons
Chief Executive Officer

Mr. Jan van Gent
Chief Operating Officer

For legalisation of above mentioned signatures
by the undersigned notary public Philippe Colson
at Geel (Antwerp-Belgium)
after he has seen the authentic papers of:
Mr. Erik Moons and Mr. Jan van Gent.
Done at Geel, on October 5th 2020

Philippe COLSON NOTARIS TE GEEL

Intersoft Electronics NV
Lammerdries-Oost 27
B-2250 Olen, Belgium
tel +32 14 23 18 11

WWW.INTERSOFT-ELECTRONICS.COM

VAT BE 0424.068.054
KBC BANK - BIC KREDBEBB - IBAN BE80 4144 0963 5177

CERTIFICATE & ACHIEVEMENT

JOTRON

TRON STAT
Certificate

No. 2003/ 025

This certificate confirms that company:

PT Panorama Timur Jaya

represented by:

Bambang Erry, Alisar, Mursid Mardi, Muhuji Amin,
Djoko Slamet Pamudji, Supri Dwiyanto, Wahyudi,
Agus Edi Hartono, Danies Hutajulu

has completed the Tron STAT training course conducted by JOTRON Electronics a.s

- The training course gives the attendant proficiency in operating Jotron's maritime products
- Programming of Tron 305 M&I, Tron 405/GPS, Tron 435/SC, Tron IE M&I and Tron VHF
- Decoding and frequency measurement of Jotron's EPIRBs with Tron UNIDEC Cospas-Sarsat EPIRB tester, as required by new SOLAS regulation for annual testing of 406 MHz satellite EPIRBs on board ships
- Maintenance of Jotron's maritime products
- Battery exchange of Jotron's EPIRBs, Tron SART, Tron 85IF, Tron AIR and Tron IE M&I maritime products
- Mechanical disassembly/assembly, function testing, inspection label marking and sealing
- Cospas-Sarsat system and IMO legislation for GMDSS safety communication equipment
- Purpose, function and functionality of Jotron's maritime products
- Warranty, exchange, service, repair procedures and routines

We hereby confirm that the above company is an authorized Tron STAT service company.
This authorization is granted the company, but is valid only as long as the named representative(s) are members of the company or until date of expiry.

Date of Tron STAT training course: 18.09.2003 — Expiry date: 18.09.2005

Trond-Atle Andresen
Instructor
JOTRON Electronics a.s

Arne Berdal
Product Manager
JOTRON Electronics a.s

JOTRON Electronics a.s

CERTIFICATE

PANORAMA - AIM POINT

In Recognition And Appreciation To

BRIMOB ANNIVERSARY
SHOOTING CHAMPIONSHIP OPEN TOURNAMENT
BASCOT V COMMUNITY 300 SC /2016
Lapangan Tembak "Hoegeng Iman Santoso" MAKO KORPS BRIMOB POLRI
KELAPADUA 13-16 & 21-23 OKTOBER 2016

KEPALA KORPS BRIMOB POLRI

DRS. MURAD ISMAIL
INSPEKTUR JENDERAL POLISI

KETUA PANITIA PELAKSANA

NUR BAGJA
AJUN KOMISARIS BESAR POLISI

CERTIFICATE & ACHIEVEMENT

2010

FROST & SULLIVAN

INDONESIA AEROSPACE AWARDS

SUPPLIER OF THE YEAR

Presented to

PT PANORAMA TIMUR JAYA

CHAIRMAN PRESIDENT PARTNER

CERTIFICATE & ACHIEVEMENT

STRUKTUR ORGANISASI PT PANORAMA GRAHA TEKNOLOGI

MULTIINTEGRA TECHNOLOGY GROUP

k | r | e | a | t | i | f

PT KREATIF DINAMIKA INTEGRASI
Setiabudi 2 Building, 5th Floor 504 A
Jl. HR. Rasuna Said Kav. 62, Kuningan, Jakarta
www.kreatifdinamika.com

PT MULTIINTEGRA
Taman Berdikari Sentosa B-1D
Jalan Pemuda, Jakarta Timur
www.multiintegra.co.id

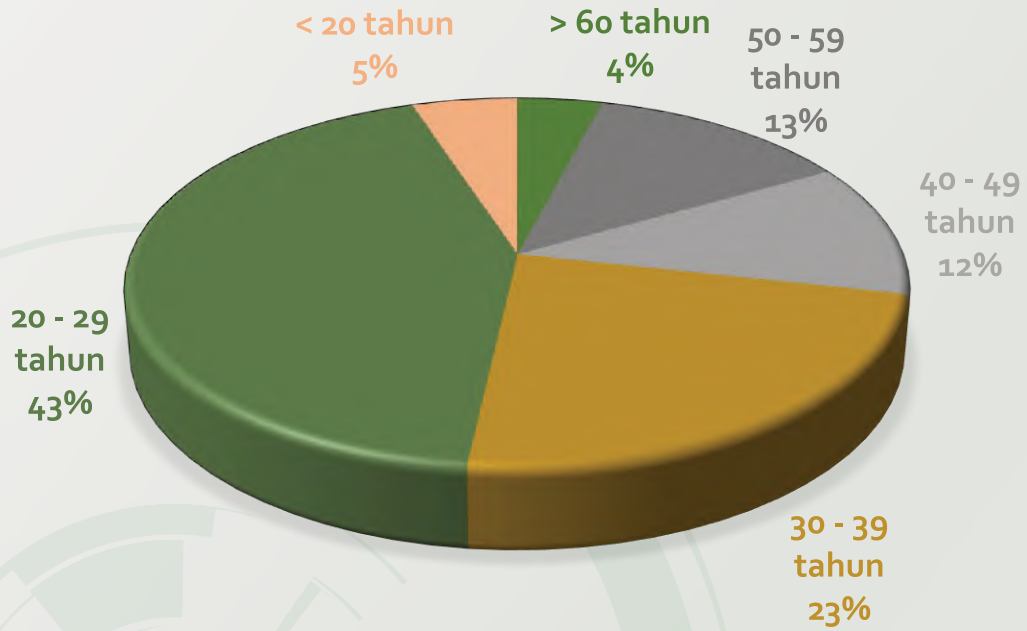
PT MULTIINTEGRA DIGITAL
SoHo Pancoran, Suite S2502
Jl. MT Haryono 2-3, Jakarta
www.multiintegra-digital.co.id

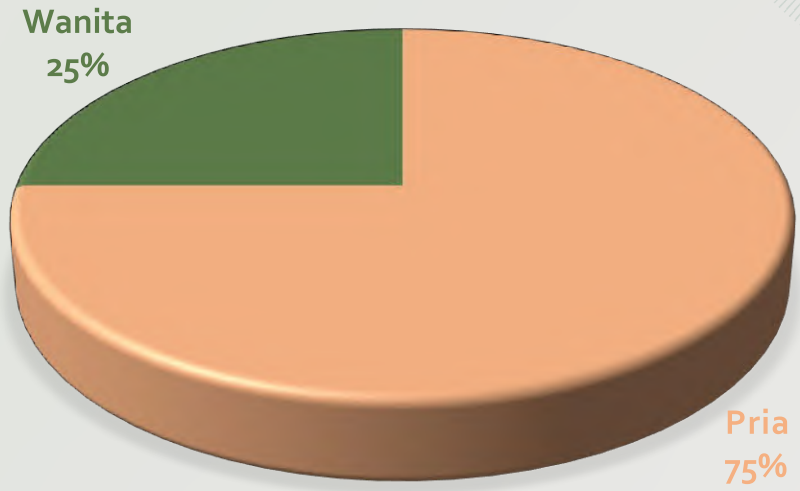
PT MULTIINTEGRA MEDIKA
Graha Mas Pemuda Blok AB-7
Jl. Pemuda, Pulogadung, Jakarta Timur
www.multiintegra-medika.co.id

PT PANORAMA GRAHA TEKNOLOGI
Graha Mas Pemuda Blok AB-7,
Jalan Pemuda, Jakarta Timur
www.panorama.co.id

Auxlink Technology Pte. Ltd.

EMPLOYEE GROUP





Total Karyawan : *226* orang

STRUKTUR

PANORAMA GRAHA TEKNOLOGI

Board of Commissioner

Aloys Sutarto
Komisaris Utama

Ramo Simulang
Komisaris

Board of Director

Anton Ponawan
Direktur Utama

Kartika Kurniaty
Direktur Keuangan

Gunawan
Sales Direktur

Division Head

Bagus Puguh
Sales Division Head

Hennry Nusa Satria
Product Division Head

Andi Wisnugroho
Marketing Division Head

Andry Alfiyan
Project Management Division Head

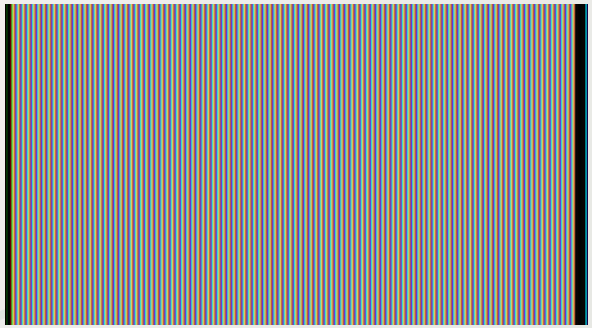
Eka Krisnanta
Techinal Engineering Division Head

Sarles Nababan
Accounting & Tax Division Head

Brigitta Maria S.
Finance Division Head

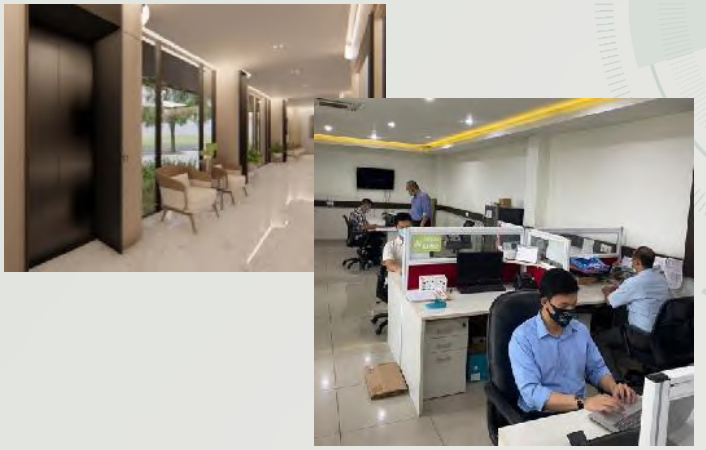
Diana Matondang
Logistic Division Head

HOLDING BUILDING FACILITY (2,400 m²)



Jalan Pemuda No.105, Jakarta Timur (on Progress)

OPERATIONAL BUILDING FACILITY **(1,300.25 m²)**



Taman Berdikari Sentosa B-1D, Jl. Pemuda Jakarta Timur – (Soon 2021)

OPERATIONAL BUILDING FACILITY **(254 m²)**

Graha Mas Pemuda Blok AB 7, Jalan Pemuda, Jakarta Timur

OPERATIONAL BUILDING FACILITY **(254 m²)**

Graha Mas Pemuda Blok AB 9, Jalan Pemuda, Jakarta Timur

OPERATIONAL BUILDING FACILITY

SoHo Pancoran, Suite S2502, Jl. MT Haryono 2-3, Jakarta 12810

WORKSHOP & WAREHOUSE
BUILDING FACILITY (**768.11 m²**)

Jalan Layur No.39, Rawamangun, Jakarta Timur

CERTIFICATE

IE ASIA-PACIFIC

CERTIFICATE OF TRAINING

This Certificate is issued to

Octavian Dwi Prasetyo

Who proficiently completed the

PT. PANORAMA GRAHA TEKNOLOGI
RASS-S & RASS-R FOUNDATION COURSE
(PART 1 OF 2)

06 May 2016

Unit 6, 26 Ipswich St
Fyshwick, ACT 2609

Mr J. De Vries
Training Manager
IE Asia Pacific Pty Ltd

IE ASIA-PACIFIC

CERTIFICATE OF TRAINING

This Certificate is issued to

Eka Biedi Krisnanta

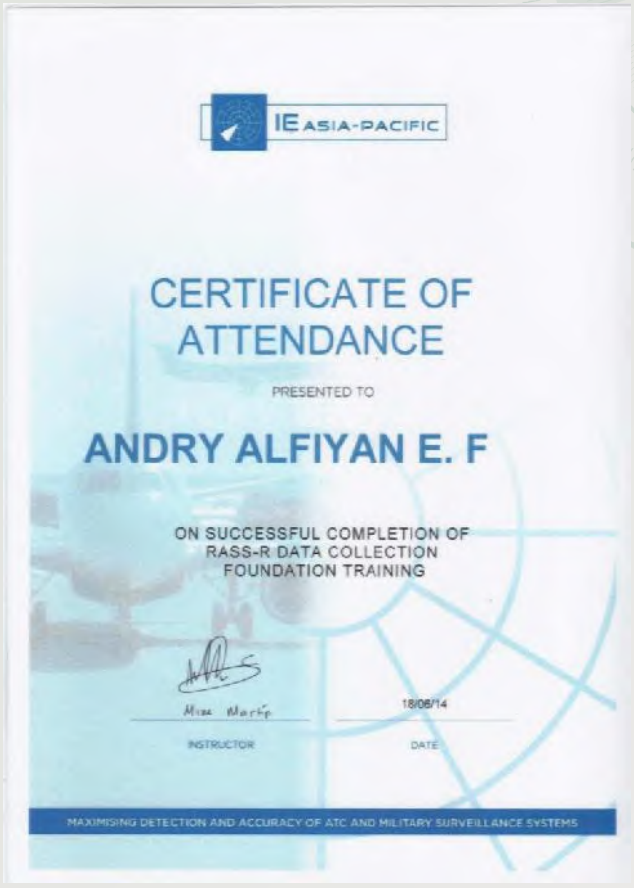
Who proficiently completed the

PT. PANORAMA GRAHA TEKNOLOGI
RASS-S & RASS-R FOUNDATION COURSE
(PART 1 OF 2)

06 May 2016

Unit 6, 26 Ipswich St
Fyshwick, ACT 2609

Mr J. De Vries
Training Manager
IE Asia Pacific Pty Ltd



IE ASIA-PACIFIC

CERTIFICATE OF ATTENDANCE

PRESENTED TO

ANDRY ALFIYAN E. F

ON SUCCESSFUL COMPLETION OF
RASS-R DATA COLLECTION
FOUNDATION TRAINING

Mike Martin — INSTRUCTOR

18/08/14 — DATE

MAXIMISING DETECTION AND ACCURACY OF ATC AND MILITARY SURVEILLANCE SYSTEMS

CERTIFICATE

ZODIAC AEROSPACE

CERTIFICATE

This is to certify that

Handoko

has successfully completed

Antenna System and Configuration Training

for the following products

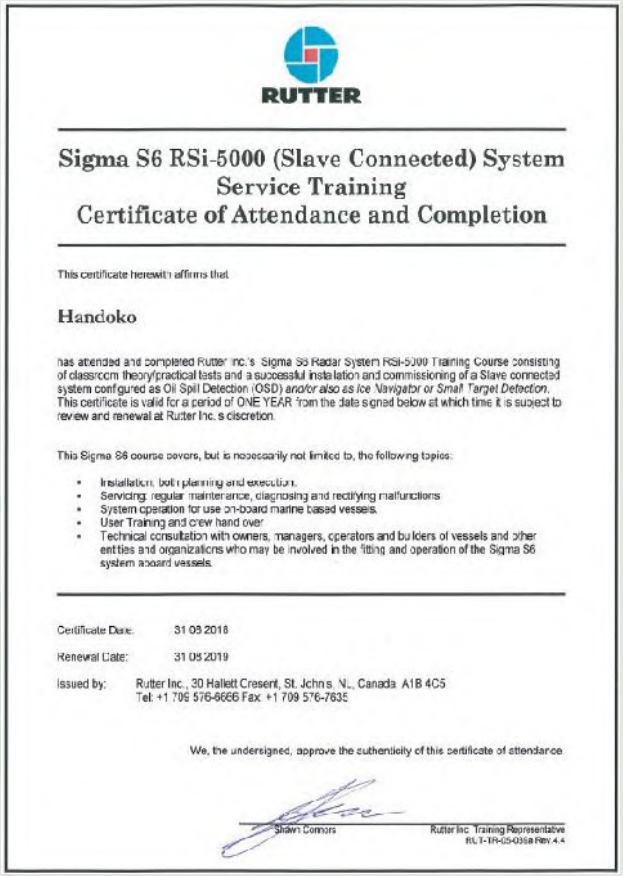
7.3M X-Band Antenna System

Date/Place
20/11 – 23/11/2018
Lembaga Penerbangan dan Antariksa Nasional (LAPAN)
Parepare, Indonesia

Date of issue:
29/11/2018

Authorised by

Cedric Compte
Training Instructor



RUTTER

Sigma S6 RSi-5000 (Slave Connected) System Service Training
Certificate of Attendance and Completion

This certificate herewith affirms that

Handoko

has attended and completed Rutter Inc.'s Sigma S6 Radar System RSI-5000 Training Course consisting of classroom theory/practical tests and a successful installation and commissioning of a Slave connected system configured as Oil Spill Detection (OSD) *and/or also as Ice Navigator or Small Target Detection*. This certificate is valid for a period of ONE YEAR from the date signed below at which time it is subject to review and renewal at Rutter Inc.'s discretion.

This Sigma S6 course covers, but is necessarily not limited to, the following topics:

- Installation, bolt planning and execution.
- Servicing, regular maintenance, diagnosing and rectifying malfunctions
- System operation for use on-board marine based vessels.
- User Training and crew hand over
- Technical consultation with owners, managers, operators and builders of vessels and other entities and organizations who may be involved in the fitting and operation of the Sigma S6 system aboard vessels.

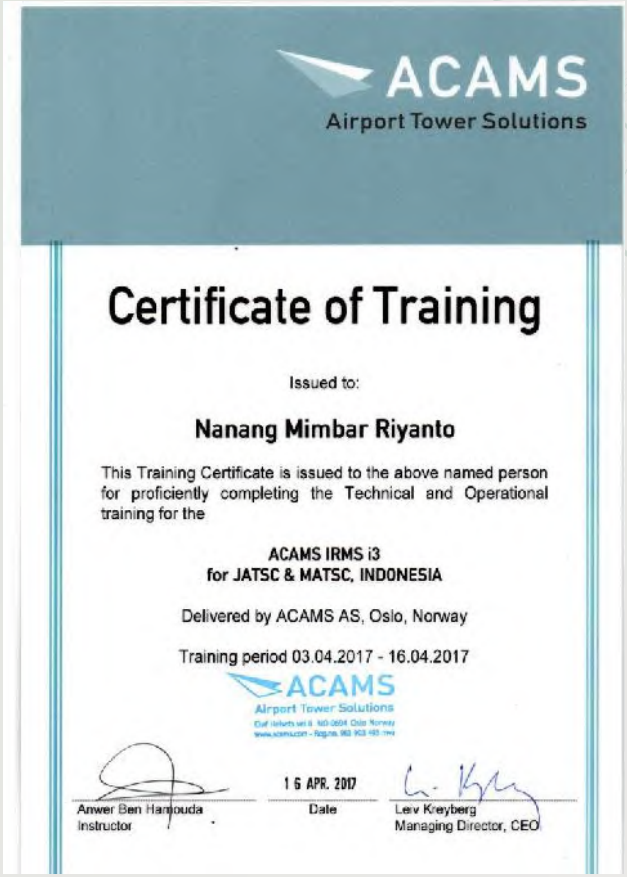
Certificate Date: 31 05 2018

Renewal Date: 31 05 2019

Issued by: Rutter Inc., 30 Hallett Cresent, St. Johns, NL, Canada A1B 4C5
Tel: +1 709 576-6666 Fax: +1 709 576-7635

We, the undersigned, approve the authenticity of this certificate of attendance

Shawn Connors — Rutter Inc. Training Representative
RUT-TR-05-036a Rev 4.4



ACAMS
Airport Tower Solutions

Certificate of Training

Issued to:

Nanang Mimbar Riyanto

This Training Certificate is issued to the above named person for proficiently completing the Technical and Operational training for the

ACAMS IRMS i3
for JATSC & MATSC, INDONESIA

Delivered by ACAMS AS, Oslo, Norway

Training period 03.04.2017 - 16.04.2017

ACAMS
Airport Tower Solutions

Anwer Ben Hamouda
Instructor

16 APR. 2017
Date

Lev Kreyberg
Managing Director, CEO

CERTIFICATE

TRANSAS
SETS THE STANDARD

Certificate

Mr.
Handoko
of company:
PT. Multiintegra

has successfully participated in a local training course at
Transas Marine Pacific Pte Ltd.
Cyber Centre, 16/18 Jalan Kilang Barat, Singapore 159358
03rd Oct. – 09th Oct. 2011
and gets herewith certified to:

Product:

NaviSailor 4000 MFD
Chart Assistant
TFAP
BNWAS
(S)VDR 3200

Tasks to perform by attendances:

Projecting, engineering and service
setting into operation and configuration
- according to international regulations

Certificate number:
NST-TMP-2011-4082

This certificate is valid for two years and needs to be re-issued upon the certified engineer's responsibility.

Date: 09.10.2011
place: Singapore

Trainer:
Joshua Koh
Senior Technician
TRANSAS MARINE PACIFIC

authorization:
Technical Manager
TRANSAS MARINE INTL.

TRANSAS
SETS THE STANDARD

Transas Marine International

Certificate

NTP/TG/ER/LCH-TMT-2011101402

This is to certify that

Hermawan, born 6 May 1991

of P.T. MultiIntegra

has successfully completed

Technical Training Course

for the following products

NTPro 5000 v5.20, TGS 5000 v8.10, Techsim 5000
ERS 5000 v7.3, LCHS 4000 Oil & Gas v1.0

Date/Place
10th to 14th Oct 2011
TMP office, Singapore

Date of issue: 14 Oct 2011

Authorised by
James Tan
Senior Project Engineer

To verify the authenticity of this certificate please send an email to simulation.sg@transas.com

CERTIFICATE

Angkasa Pura | AIRPORTS

Certificate

Awarded to

Hennry Nusa S

As a participant in

GLOBAL AIRPORTS INDONESIA 2012

On June 26-27, 2012
The Ritz Carlton Hotel, Pacific Place, Jakarta

PT Angkasa Pura I (Persero)
Tommy Soetomo
President Director

U.S. Commercial Service, U.S. Embassy
David Gossack
Counselor for Commercial Affairs

PT Angkasa Pura II (Persero)
Tri S. Sunoko
President Director

AEROFLEX
A passion for performance.

hereby certifies that

Hennry Nusa Satria
Of
PT Panorama Timur Jaya

Has completed the "Avionics and Communications Operations Course"

Awarded the 25th day of July 2008

by

Leonard Zarchan
Leonard Zarchan Training Instructor

CERTIFICATE

CERTIFICATE

LEMBAGA
PENGEMBANGAN JASA KONSTRUKSI
Construction Services Development Board

Nomor : 0388260

SERTIFIKAT KEAHLIAN

Sesuai dengan Undang-Undang No. 18 Tahun 1999 tentang Jasa Konstruksi dan Peraturan Pemerintah Nomor 28 Tahun 2000 sebagaimana diubah dengan Peraturan Pemerintah Nomor 4 Tahun 2010 dan Peraturan Pemerintah Nomor 92 Tahun 2010, dengan ini Lembaga Pengembangan Jasa Konstruksi menetapkan bahwa :

Nama : **ANDRY ALFIYAN EL FURQONY ST**

dinyatakan memiliki kompetensi dan kemampuan serta dapat melaksanakan kegiatan profesi konstruksi di seluruh wilayah Republik Indonesia, sebagai

Klasifikasi dan Kualifikasi Tenaga Ahli

AHLI TEKNIK ELEKTRONIKA DAN TELEKOMUNIKASI DALAM GEDUNG - MUDA

Nomor Registrasi
1.4.405.3.057.09.1101697

Sertifikat ini berlaku paling lama 3 (tiga) tahun terhitung sejak ditetapkan

Ditetapkan di : **Jakarta**
Pada tanggal : **18 September 2015**

Lembaga Pengembangan Jasa Konstruksi Provinsi DKI Jakarta
Badan Pelaksana

Irianto Mangunsong
Manajer Eksekutif

KHARISMA
Mitra Training

Sertifikat

No. KMT 010012013
Diberikan kepada

SARLES R. NABABAN

yang telah mengikuti
Pelatihan Perpajakan dengan tema :

KUPAS TUNTAS PERMASALAHAN PPN
(Update Ketentuan & Peraturan Terbaru 2012-2013)

Yang diselenggarakan di:
BIDAKARA HOTEL - JAKARTA
Tanggal 22 JANUARI 2013

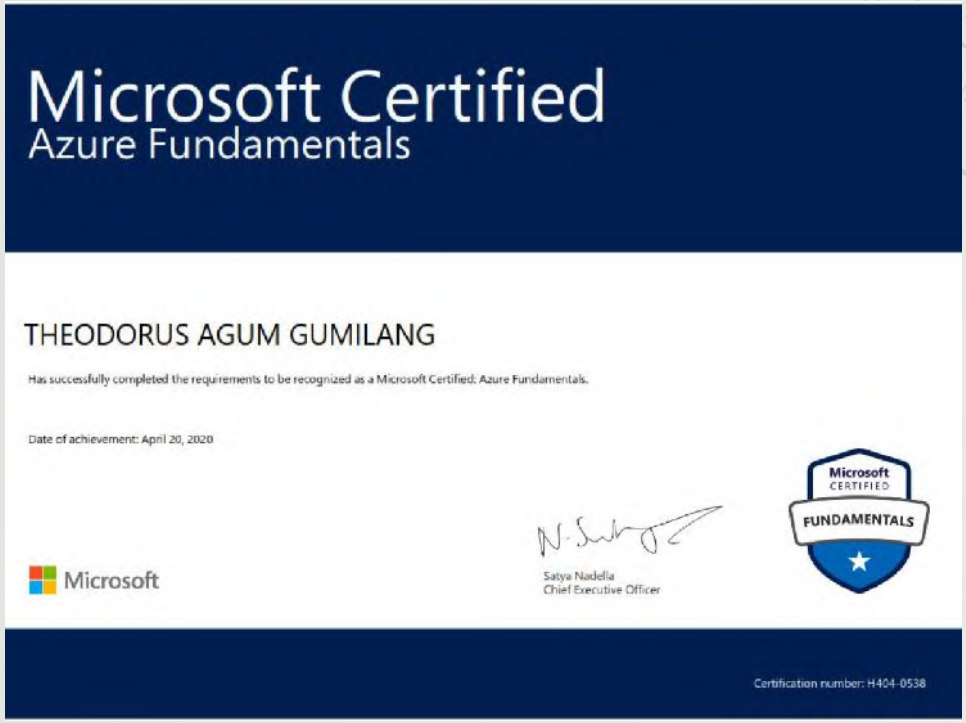
Kharisma Mitra Training

ABDUL ROHIM
Trainer

CERTIFICATE

CERTIFICATE

CERTIFICATE

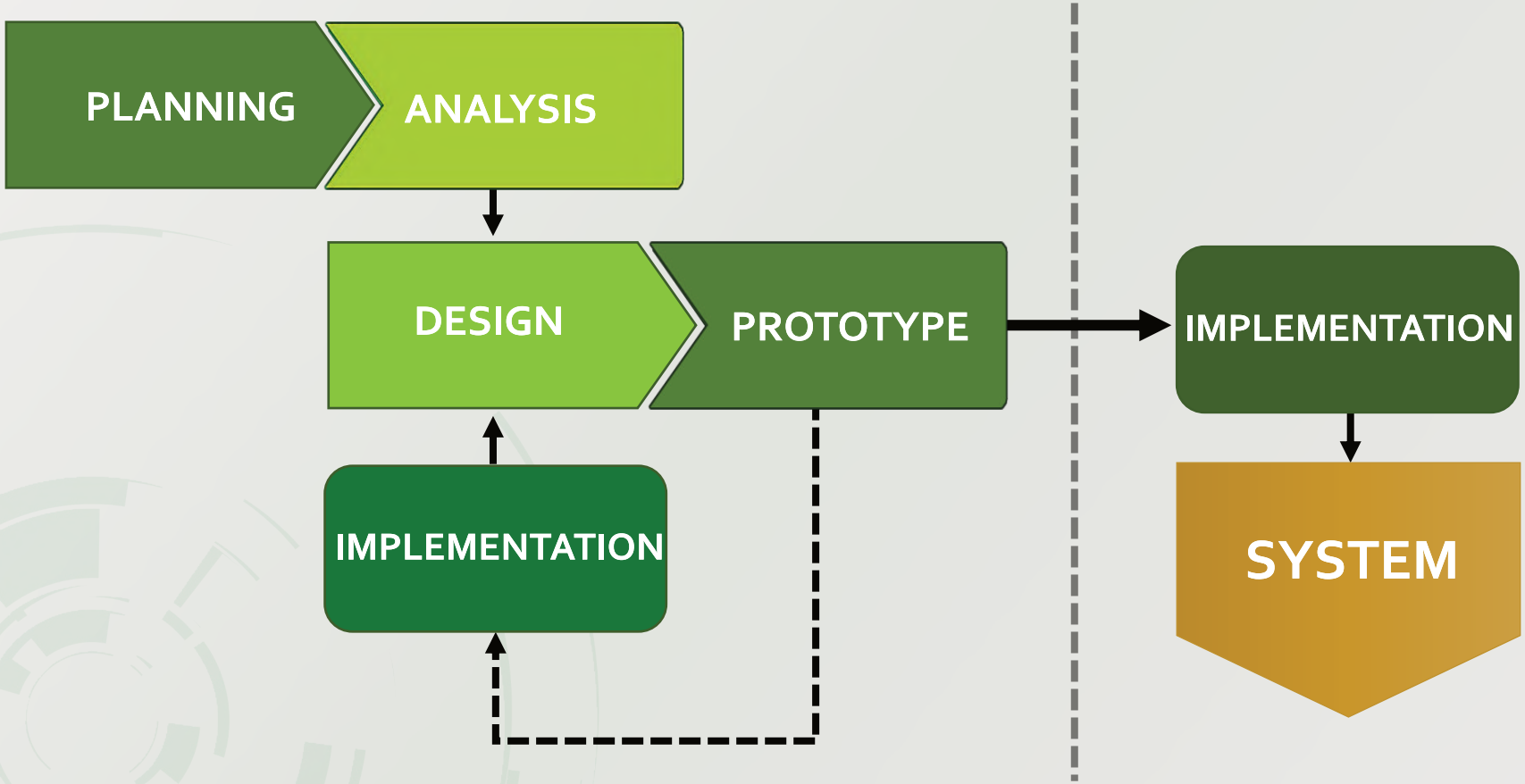


CERTIFICATE

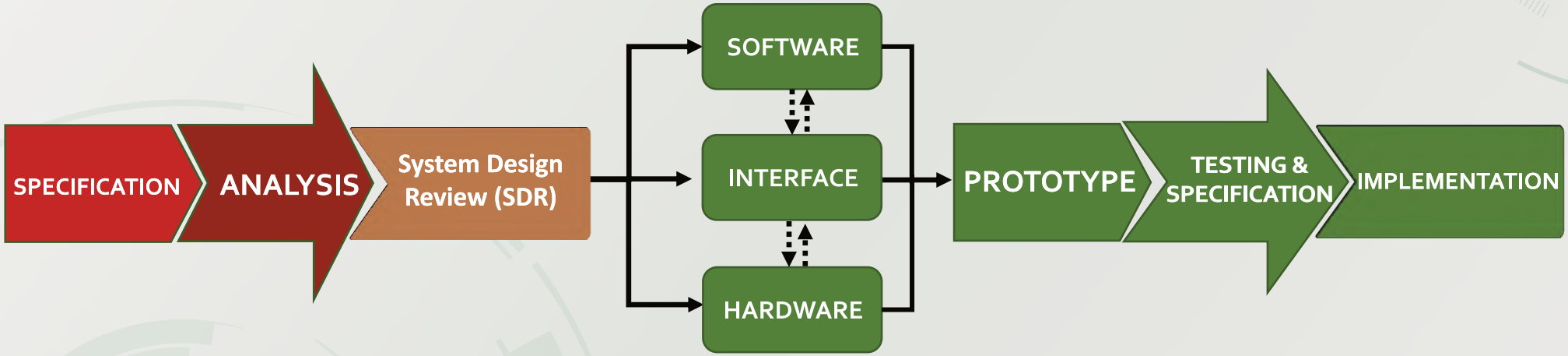
SERVICES & PROJECT MANAGEMENTS

- **Site Survey**
- Technical & Commercial proposal
- **Project & Supply Implementation**
- Installation and Commissioning
- **After Sales service**
- Project Management
- **Logistic Support**
- Equipment & System Training
- **Operation & Maintenance**

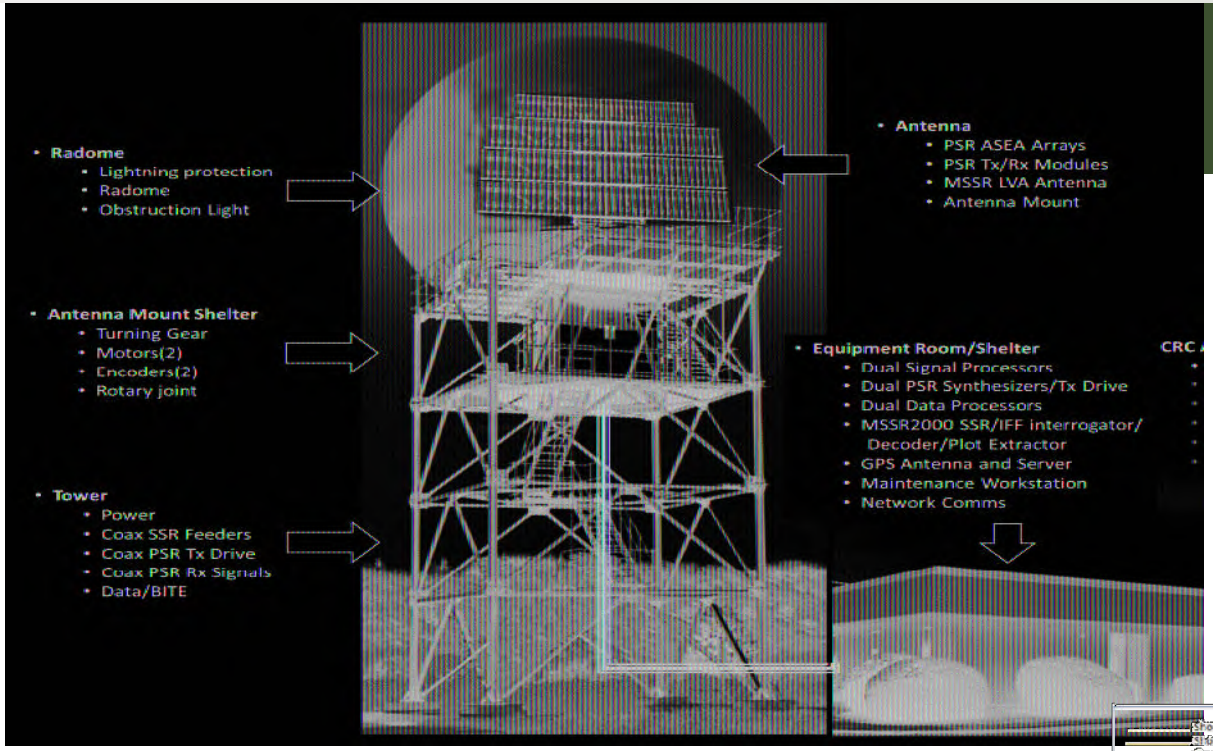
PROSES RANCANG BANGUN



DETAIL PENGEMBANGAN SISTEM



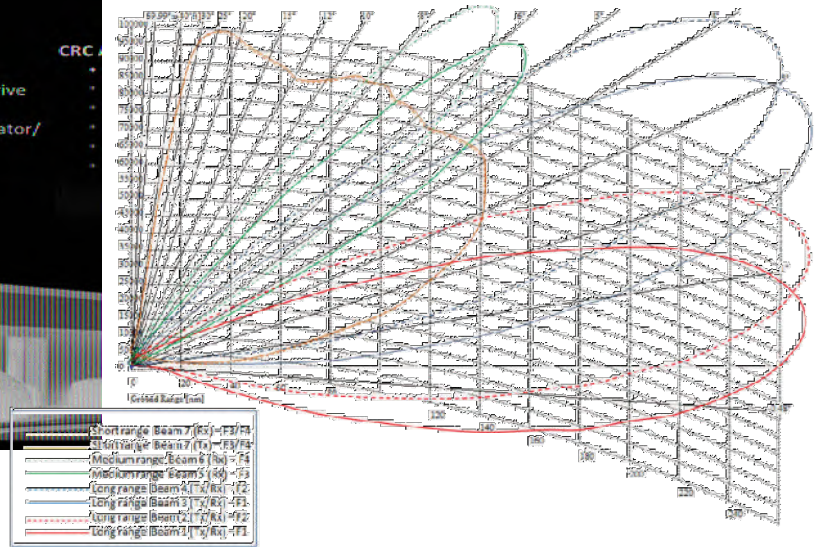
PANORAMA GRAHA TEKNOLOGI



Air Defence Radar
Upgrade

Air Defense Radar Upgrade, covering:

▪ PSR / MSSR ▪ ADS-B



REFERENCES

- ASR-8
  - USA, Federal Aviation Administration
  - Full redundant processor upgrades
  - FAA Common Terminal Digitizer program
  - 52 systems operational at FAA
  - Spin off: NASA, US Navy, US Air Force

TELEPHONICS® A Griffon Company

FEDERAL AVIATION ADMINISTRATION

INTERSOFT ELECTRONICS

REFERENCES

- Hensoldt ASR-NG
  - Germany, Australia, UK, Austria, Netherlands
  - NGSP® Three beam processing
  - Full redundant processor subsystem
  - 30 systems delivered
  - On-going development

HENSOLDT
Detect and Protect.

REFERENCES

- TPS – 43 / 70 / 75
  - Europe, USA, Latin America, Africa
  - Processor and Transmitter upgrades
  - Integration with IFF interrogator
  - > 10 installed and in progress

VENETIC

RUAG
Aerospace Defence Technology

REFERENCES

- Martello S-723 / S-743
  - Belgium, Malaysia, Greece, Denmark
  - Processor upgrades
  - Integration with IFF interrogator
  - 7 installed and in progress

NSPA
NATO SUPPORT AND PROCUREMENT AGENCY

REFERENCES

- ASR and Terminal Approach
  - Belgium, Estonia
  - ASR-M® configurations
  - Processor and Transmitter upgrades
  - Wind turbine mitigation – VCC / VCC²
  - 5 installed and in progress

REFERENCES

- Belgian Air Force
  - All BAF radars use Intersoft's NGSP® technology, all but one use NGTx
  - All BAF radars under maintenance contract with Intersoft Electronics

L Band en Route

ASR-M® C3 gap filler

Marconi S723

TA-10 / ASR-M® C4

REFERENCES

- Modular and scalable approach
  - Field proven technology, over 100 systems installed
  - Fast development for new upgrades, using building block approach

ARSR-4

TRS-22XX series

Watchman

REFERENCES

- ASR-M® System configurations
  - Upgrade standard ASRs to 3D, wind turbine resistant, drone detection
  - Full redundant NGSP® processor and NGTx transmitter configurations

STAR-2000

ASR-10

ASR-11

PRODUCT

RADAR UPGRADE & OPTIMIZATION

The Radar Performance Evaluation Tools are divided into 4 categories:

- **MONITORING AND TARGET ANALYSIS TOOLS**

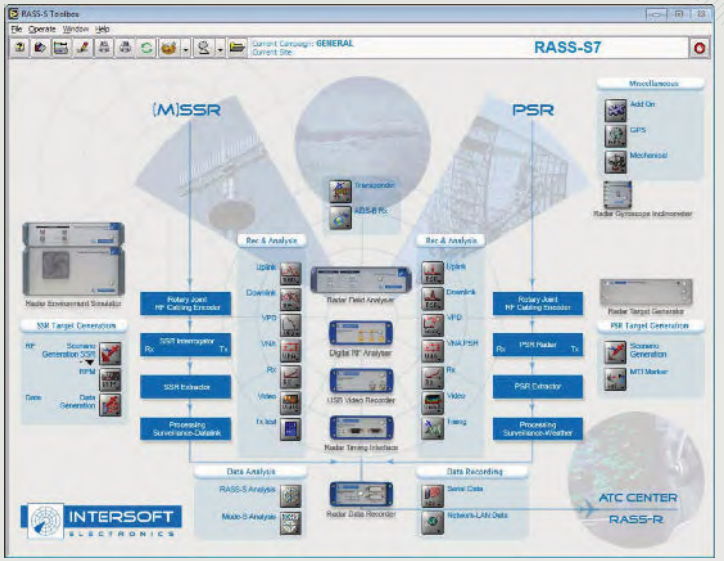
The Monitoring and Target Analysis tools provide software analysis of opportunity traffic for verification of key performance parameters under common air traffic situation and is known as RASS®-R.

- **SITE EXPERT MEASUREMENT TOOLS**

The RASS®-S (Radar Analysis Support System for Site activities) hardware tools allow the users to test advanced technical parameters for hardware performance verification and advanced fault isolation driven by a set of highly performant software tools.

- **MODULAR RADAR CONCEPT**

Modular Radar is the integration of NGSP® with NGTX, receiver, MSSR, antenna assembly and logistics for full ASR applications. IE offers Modular Radar together with its network partners.



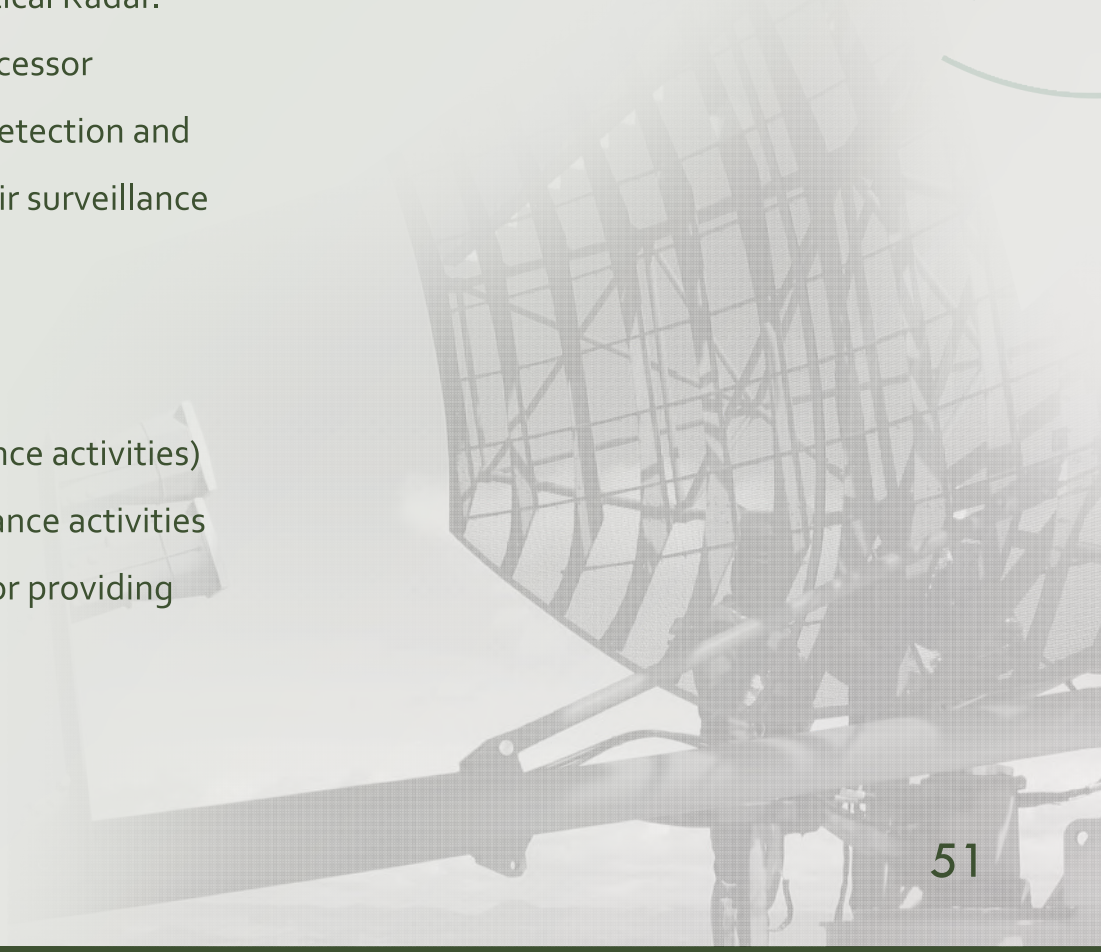
RADAR UPGRADE & OPTIMIZATION

- **RADAR UPGRADES & SERVICE LIFE EXTENSION PROGRAMS**

IE offers solutions for SLEP and upgrade of a wide range of radar systems, including PAR/TAR, Fire Finder, Long Range 3D, ASR and Tactical Radar. The core technology is called the Next Generation Signal Processor (NGSP®), offering wind farm mitigation, true 3D, improved detection and ECCM capabilities. IE SLEPs are a cost effective solution for air surveillance and sustained operations.

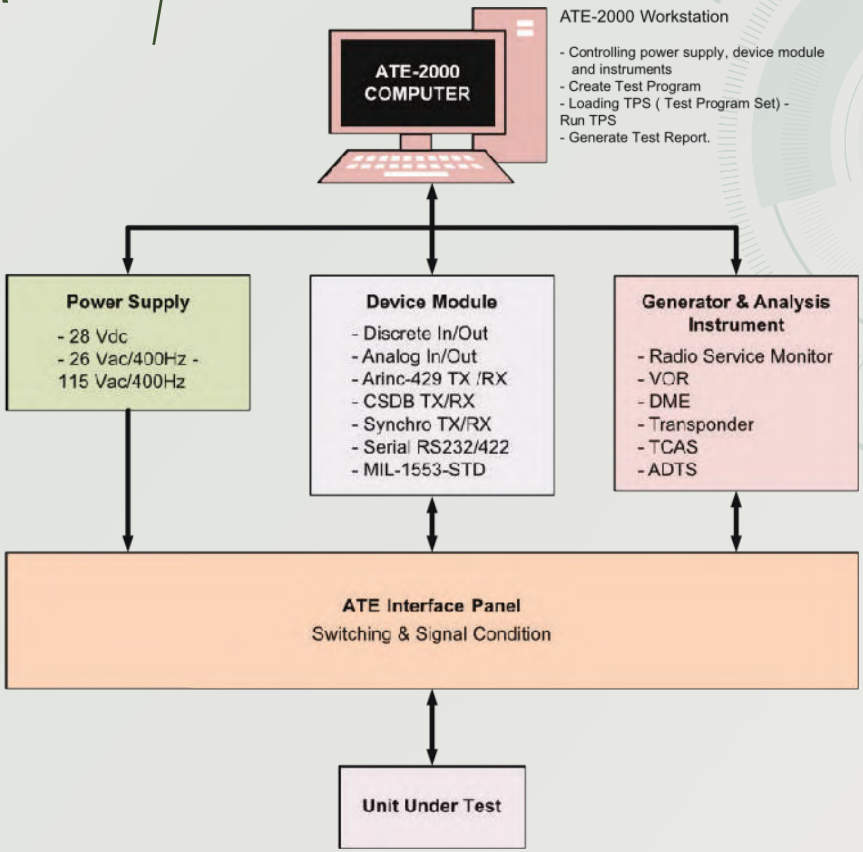
- **SITE MAINTENANCE TOOLS**

The RASS®-M (Radar Analysis Support System for Maintenance activities) tools are used by radar technicians during recurring maintenance activities to collect and analyse the data of the radar under test therefor providing early identification of developing hardware problems.



AVIONICS TESTING
WITH ATE-2000 SYSTEM

Maintaining Avionics equipment which includes navigation and airplane communication equipment are very important to ensure aircraft operation readiness. Adequate equipment is needed to do this to calibrate and repair the equipment. A Solution to perform testing of aircraft avionics equipment accurate, quick and easy is required.

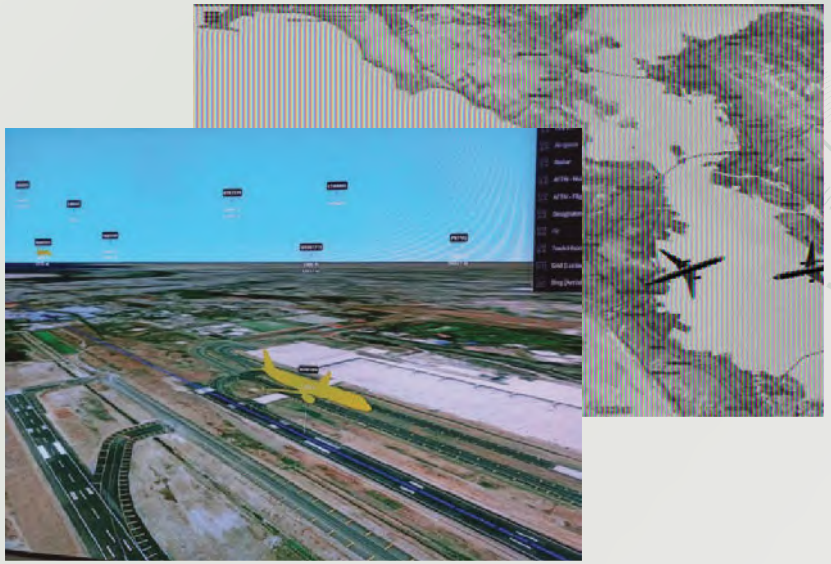


Applicable for:

- Airlines
- Avionics Workshop
- Maintenance Repair Organization (MRO)
- Army, Navy, Air Force, Police

AIR TRAFFIC
VISUALIZER & ANALYZER

The system capable to visualize & analyze the data coming from some sources such as : *PSR / MSSR, ADS-B, AFTN, Weather forecast, etc*



The parameter of analytic can be customized depend on the user requirement for special purpose, such as:

- Air traffic density
- Air traffic load
- Air traffic statistic
- Flight plan
- Flight monitoring
- Track history

Advantages of the system:

- Display in 2D and 3D views
- Detailed maps
- Aircraft filtering
- Report generation
- Air traffic situational awareness
- Playback & record all the traffic data

Applicable for:

- Civil Aviation
- Airport Authority
- Air Force
- Search & Rescue
- Airport Operator
- Airline Company

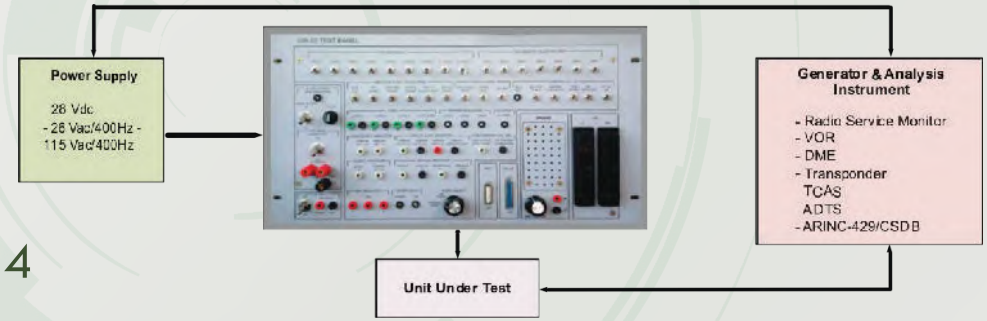
AVIONICS SYSTEM LEARNING WITH **ADVANCED AVIONICS SYSTEM** TRAINER

Aviation Academy usually have engineering study program with one of the focus on aircraft maintenance. The aircraft maintenance would also cover study on Avionics System like VOR, ILS, DME, XPDR, COMM, etc. Many teaching aids on the market are only capable to provide study on the basic principle of the aircraft, it would not give deep understanding on how the aircraft components work as well as learn how to maintain and repair properly.

The Advanced Avionics System Trainer mimics and based on real components of Avionics System in the aircraft. The main objective is that cadets would be able to have full study on Avionics System, and since the solution is based on real aircraft components thus the cadets are also able to learn on aircraft system maintenance and repair.

Avionics System Trainer is composed by:

- Test Panel
- Power Supply
- Unit Under Test



Applicable for:

- Aircraft Maintenance
- Aviation Training / Schools
- Army, Navy, Air Force, Police

GIS DATA WITHIN
AN INTEGRATED 3D & 2D ENVIRONMENT

LuciadLightspeed is a modular and extensible desktop solution for geospatial situational awareness. It provides the foundations for advanced geospatial analysis applications. Thanks to its modular, open architecture and meticulous adherence to industry standards, LuciadLightspeed is the preferred technology for enterprise-wide geospatial situational awareness. LuciadLightspeed's is Luciad's flagship product. LuciadLightspeed consists of a set of highly flexible software components connectors allow users to fuse, visualize, and analyze geospatial data. This can include static and moving data, maps, satellite imagery, crowd-sourced data, full motion video, weather data, and terrain elevation in many different geodetic references and map projections. Geo-fencing, line-of-sight calculations, geo-triggered events, dynamic and complex route calcula- tions, and automated anomaly detection are just a mouse click away. Benchmark tests by academia and industry have found LuciadLightspeed to be more than 100 times faster and more accurate than traditional GIS software.

Advantages of LuciadLightSpeed:

- Accurate, High Performance Results
- Visual Analytics for Intuitive Answers
- Connect to various data sources
- Focus on Customizability and Integration

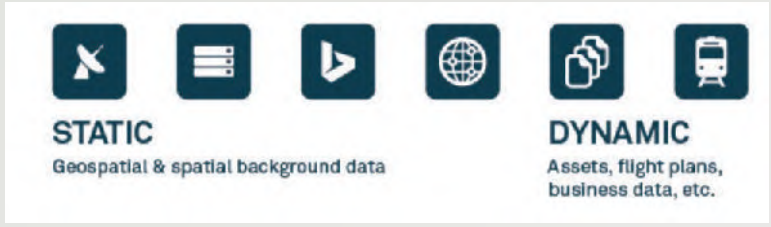
Applicable for:

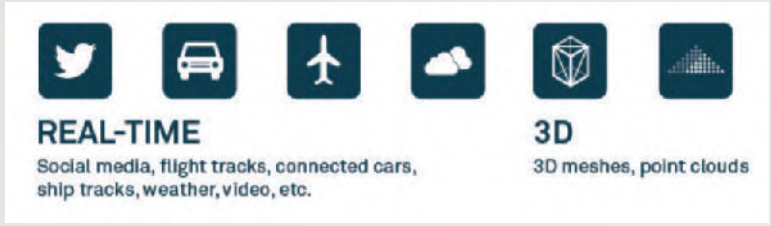
- Aviation
- Defense & Intelligence
- Maritime
- Transportation

GIS DATA WITHIN
AN INTEGRATED 3D & 2D ENVIRONMENT

LuciadRIA is the answer to today's demands for powerful, lightweight applications in the browser. Driven by today's most advanced web technologies, LuciadRIA uses WebGL, HTML5, and JavaScript to deliver desktop-like performance to your web applications. Using its configurable API, you can add support for custom data feeds, add your own symbology or match user interaction and look and feel to your company's needs and style. LuciadRIA offers a single visualization API for 2D and 3D, with or without hardware acceleration.

With LuciadRIA, you can expect high performance and complete accuracy, with desktop-like visuali- zation of satellite and other imagery, vector-based data, and dynamic content, such as tracks. Data can be explored in a 2D or 3D map view or vertical intersection view.



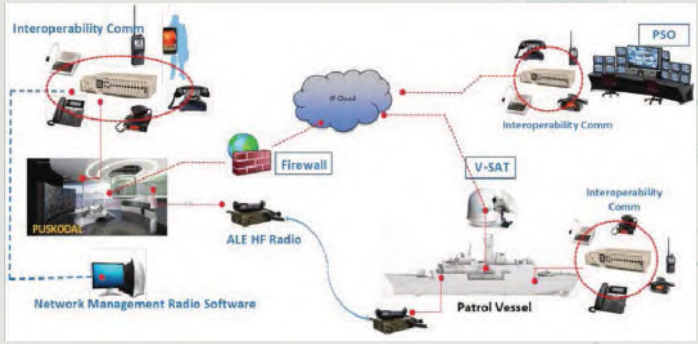


Advantages of LuciadRIA:

- From 2D to 3D with the Click of a Button
- Fully Leverages HTML5 Technology
- Accelerated Visualization Done Right

SECURE MULTIPLATFORM COMMUNICATION SYSTEM

To maintain the area security, coordination is needed in terms to quickly find out the status on the spot and ensure to take right action promptly. Conducting covert operations a secure network is required in the communication of data, voice, images and video. The communication equipment with intercom, HF, VHF, UHF radio and video streaming must be well secure integrated. Secure Multiplatform Communication is an integration solution of a variety of new or existing equipment.



Secure Multiplatform Communication System consists of:

- Audio Gateway management, Integrate the communication at the Headquarters and patrol boats into an integrated communication using IP networks communication, can be managed remotely and communication between sites simultaneously.
- Mesh Network, Is a network system that has the ability to distribute data through various existing paths (multi-path), having self-recovery ability when there is a broken line, data will be sent through other available channels.
- Automatic Link Establishment, High-level HF radio telecommunications technology to improve communication effectiveness through computerized frequency management.
- Tactical Compression Encoder, Used to send compressed picture and video from patrol boats, sea riders, and operating personnel with a minimum bandwidth of up to 10 kbps.

Applicable for:

- Government
- Army, Navy, Air Force, Police
- Coast Guard
- Fishries
- SAR Organization
- Law Enforcement

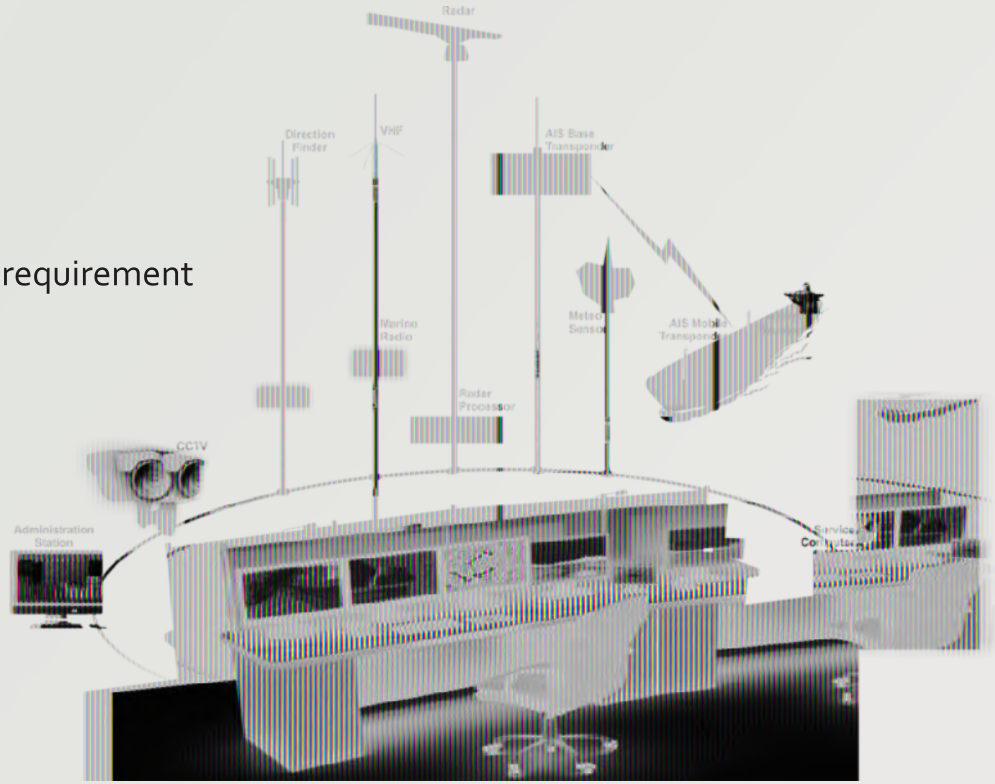
MARITIME INTEGRATED **SURVEILLANCE SYSTEM**

The system capable to do special task on the maritime surveillance thanks to special analytic module that can gather and analyze the data from some sensors, such as:

- Coastal or Mobile Radar
- AIS Base Station
- AIS Satellite
- Radar Satellite
- VMS (Vessel Monitoring System)
- Imagery Satellite
- Long Range Coastal Camera, etc

The parameter of analytic can be customized depend on the user requirement for special purpose, such as:

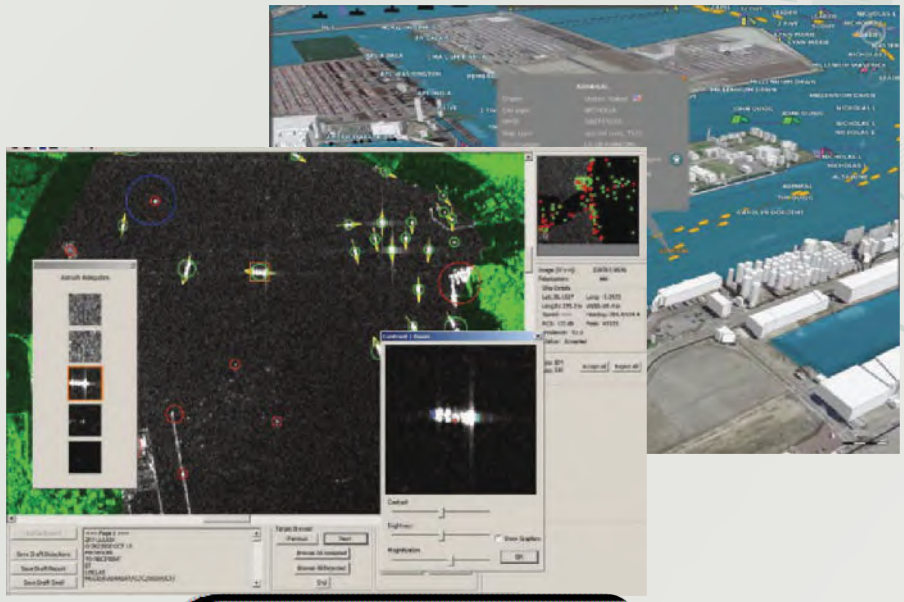
- Transshipment detection
- Illegal fishing
- Illegal trafficking
- Anti-collision avoidance
- Smuggling detection
- And other illegal activity at sea



MARITIME INTEGRATED **SURVEILLANCE SYSTEM**

Advantages of the system:

- Integration and presentation of data from different sensors and coordination of local systems
- Accurate detection and tracking of the small and fast targets in the various environmental conditions (rain, fog, snow, sea states)
- Visual identification of the ships in worse weather conditions (darkness, fog, heavy rain)
- Targets classification (types of ships)
- Configurable crossing line (border)
- Identification of the ships and other navigational objects
- Detection of illegal activity
- Provision data for SAR operation
- Recording / playback of all data and tracks synchronously for violence analysis
- Pictures / moves capture for documental evidence
- Automatic identification of dangerous situations and activation of alarm signals
- Customization of the analytic parameter
- Integration with other system



Applicable for:

- Directorate General of Sea Transportation
- Customs
- Coast Guard
- Navy
- Ministry of Fisheries
- Search & Rescue Agency
- Marine Police
- Offshore Company
- Port Authority
- Harbour Master

IP **REMOTE RADIO**

IP Remote Radio - capable to integrate the MF / HF / VHF and UHF Radio. IP Remote Radio consist of IP-based radios that can be operated to cover unlimited distance. IP Remote Radio can be installed at a locations but able to cover from anywhere. IP remote radio at each locations connected to the Internet so that it can be operated from a central office that have radio server and monitor radio operators installed.

Radio Remote IP advantages:

- IP based / can be operated for unlimited distance
- Capable of recording sounds and messages
- Capable to control the radio setting such as channel, squelch, power, volume etc remotely
- Support for unmanned radio site
- Open and modular system architecture to make easy on future development
- Capable to do some radio operation in one radio workstation site
- Able to receive DSC messages
- Capable to know the status of radio site / maintenance remotely
- GIS (Geographical Information System) solution featuring the fleet position on a map based on the message AIS and DSC messages
- The operator using the touch screen display and easy to operate. Can be integrated with PBX / IP phone.
- Compatible with all analog (non-IP) radio products

Applicable for:

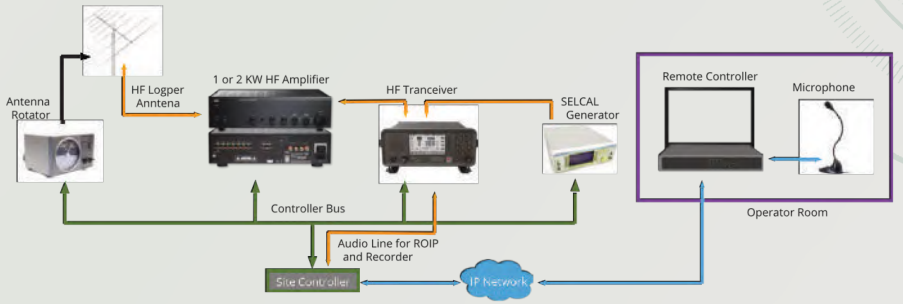
- Government
- Army, Navy, Air Force, Police
- Coast Guard
- Fisheries
- SAR Organization
- Coastal Station
- Offshore / Onshore Operation
- Command Center

HF COMMUNICATION RADIO FOR **AIRCRAFT FLIGHT**

Aircraft operators need to monitor its fleet as both a commercial and cargo, to know the position and status of each airplane, especially for the long-distance route.

The aircraft will be equipped with HF radio and Selective Calling (SELCAL) Decoder to respond calls from Ground Operator.

Ground Operator will be equipped with HF Radio, RF Amplifier, SELCAL Generator, Antenna Rotators and Voice Recorder integrated as communication and monitoring system, capable to communicate with long distance flight.
HF Radio and other devices can be operated remotely through the Internet Protocol. Antenna used is Log Periodic type so that the communication in a specific direction can be optimize.



Advantages

- User friendly
- Flexible configuration
- Graphic user interface (GUI)

Software Controller:

- Radio Transceiver controller
- Amplifier Controller
- SELCAL Controller
- Antenna Rotator Controller

Applicable for:

- Airlines / Aircraft Operator
- Marine Affairs, Fisheries
- Governments

VESSEL TRAFFIC SERVICES

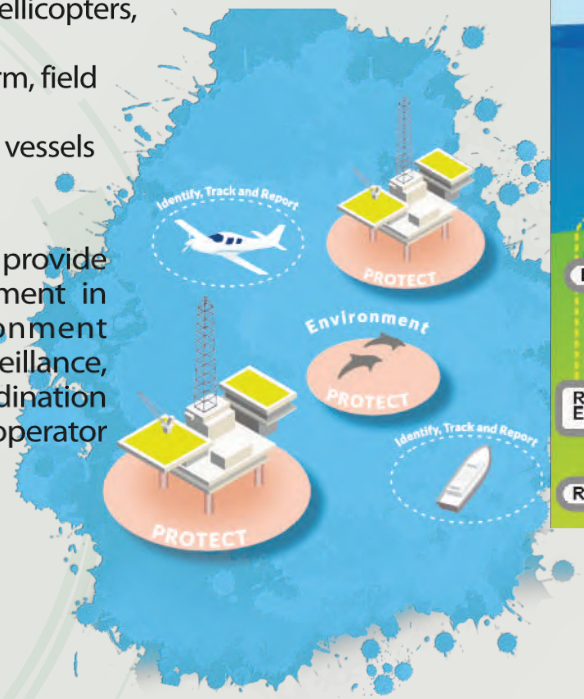
Protect field assets, personnel and environment using :

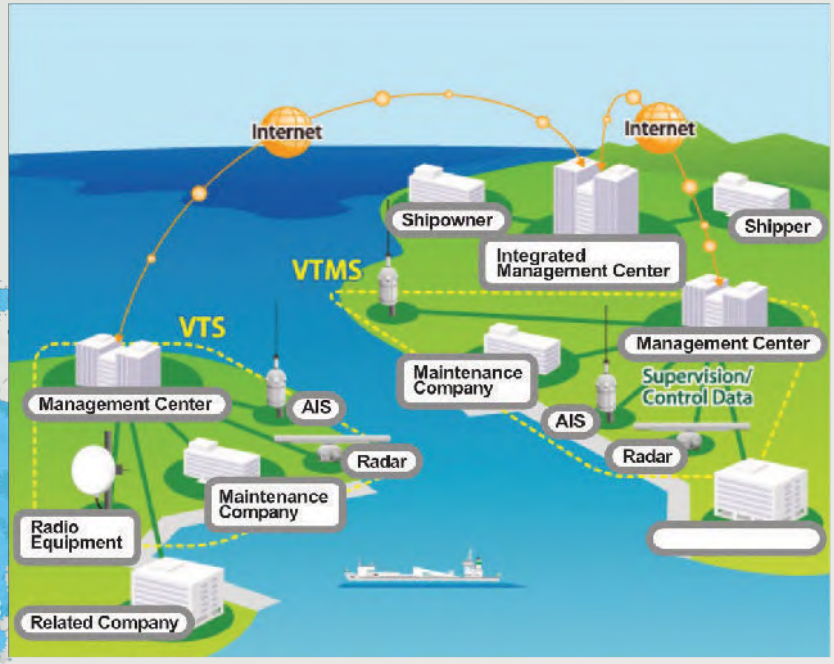
- Radar
- AIS
- CCTV
- Communications
- Guard Zones
- Man Over Board
- Vessel Chart system

Identify, track and report :

- Airbone and shipping assets-hellicopters, ORSVs, other field vessels
- Traffic picture locally on platform, field vessels and at shore base
- Threats-fishing vessels & cargo vessels

Vessel traffic solutions developed by Transas provide advanced solutions for vessel traffic management in planning, traffic monitoring and environment protection, offshore security and coastal surveillance, collision avoidance, shore-based pilotage, coordination of search and rescue operations and VTS operator training.





MULTIPURPOSE
SIMULATION SYSTEMS

Cubicle Navigation & Ship Handling

Fishing Training & Development

Ice Navigation Simulator

Crew Resource Management Training

Navigation & Ship Handling

Navigation & Ship Handling

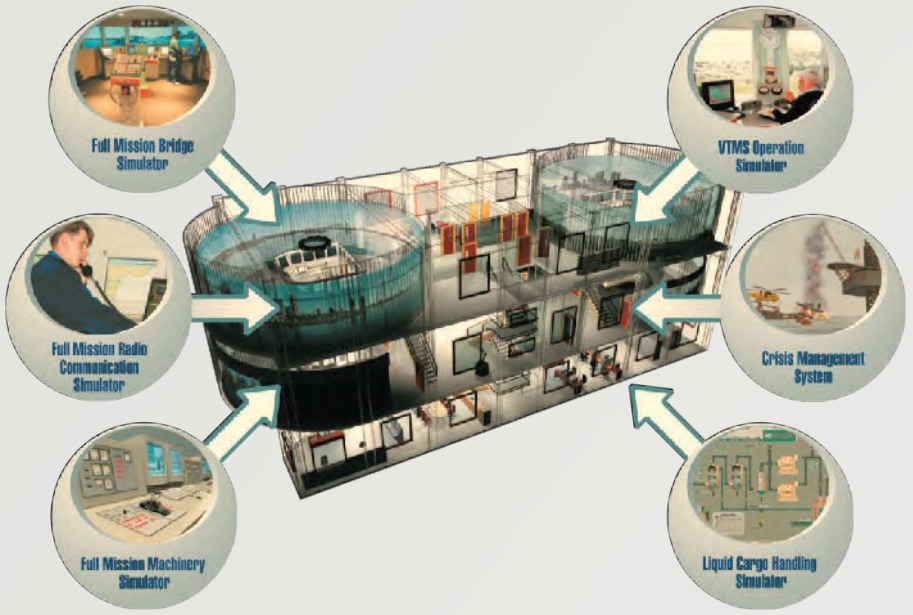
Training in STCW 2010 and Beyond

Conventional training:

- AIS
- ARPA/Radar
- Crew resource management training and assessment
- ECDIS
- SSAS
- Shiphandling training and assessment
- Vessel traffic training and research
- Training for specialists receiving General Operator Certificate or Restricted Operator Certificate
- Training of engine department personnel
- Training of liquid cargo tanker and gas carrier personnel
- Training of oil terminal personnel

Special training & Applications

- Fishing gear handling
- Inland operations
- LNG docking/undocking operations and research
- Multiple tug and barge handling operations
- Offshore oil/gas platform support
- Port and vessel feasibility studies
- River tows
- Sailing in ice conditions
- Search and rescue operations
- Single point mooring
- Incidents Reconstruction



ROADMAP

2020

- Alat Ukur Avionics untuk pesawat angkut militer
- Radar data splitter
- Pembangunan Gedung Holding (On Progress)

2021

- Alat Ukur Avionics untuk pesawat tempur
- Vietnam MRO Facilities
- Radar Upgrade Thompson TRS-22XX
- Air Traffic Visualization & Analysis
- HF Communication Radio for Aircraft Flight
- Menambah Kapasitas Gudang & Tempat Produksi

2022

- Upgrade Alat Ukur Avionics Pesawat Angkut militer
- Pakistan MRO Facilities
- Vietnam Port Monitoring & Surveillance
- Radar Upgrade Thompson TRS-22XX
- Air Traffic Visualization & Analysis
- HF Communication Radio for Aircraft Flight

ROADMAP

2023

- Radar Plessey
- Air Traffic Visualization & Analysis
- HF Communication Radio for Aircraft Flight

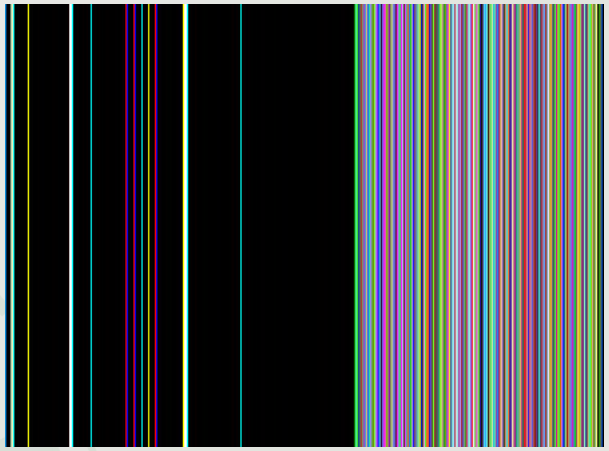
2024

- Radar Upgrade Thompson TRS-22XX

Technical Support Activities

R&D, Engineering, Integration, Maintenance, Troubleshooting, Repair Works

Technical Support Activities



R&D, Engineering, Integration, Maintenance, Troubleshooting, Repair Works

TECHNICAL SUPPORT
ACTIVITIES

Radio Communication Test System Installation
Ministry of Transportation

TECHNICAL SUPPORT
ACTIVITIES

Supporting Radio Communication Testing
Indonesian Army

TECHNICAL SUPPORT
ACTIVITIES

Supporting Radio Communication Testing
Indonesian Army

TECHNICAL SUPPORT
ACTIVITIES

Avionics Test System Training
Indonesian Air Force

PRINCIPALS & GLOBAL PARTNERS

VIAVI AEROFLEX	TCI SPECTRUM MANAGEMENT & MONITORING	INTERSOFT ELECTRONICS RADAR QUALITY ANALYSIS TOOLS
elno DEFENCE & SECURITY	GD GENERAL DYNAMICS Mission Systems	HUBER+SUHNER Excellence in Connectivity Solutions
CYBERNETICA	Aimpoint RED DOT SIGHTS	STE Sapura Thales Electronics
inmarsat	ACAMS Airport Tower Solutions	mku®
4INTELLIGENCE	INTELCAN	vehere
Ti Training	JOTRON	Digital Barriers
THALES Thales Defense & Security, Inc. - USA	blade aerospace	WÄRTSILÄ TRANSAS

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