



# SIMPLIFIED SKIES: MODERN SYSTEMS FOR AIR TRAFFIC MANAGEMENT

**> Company profile**

# ABOUT SKYLARK SERVICES



**14+**

Years of Experience



**Mindelheim**

Bavaria, Germany



**Dmitry Dima Korolkov**

tdk@skylark-services-atc.com

+49 176 410 89 782



## PRODUCTS

→ ATM Galerida

→ UTM SharedSKY

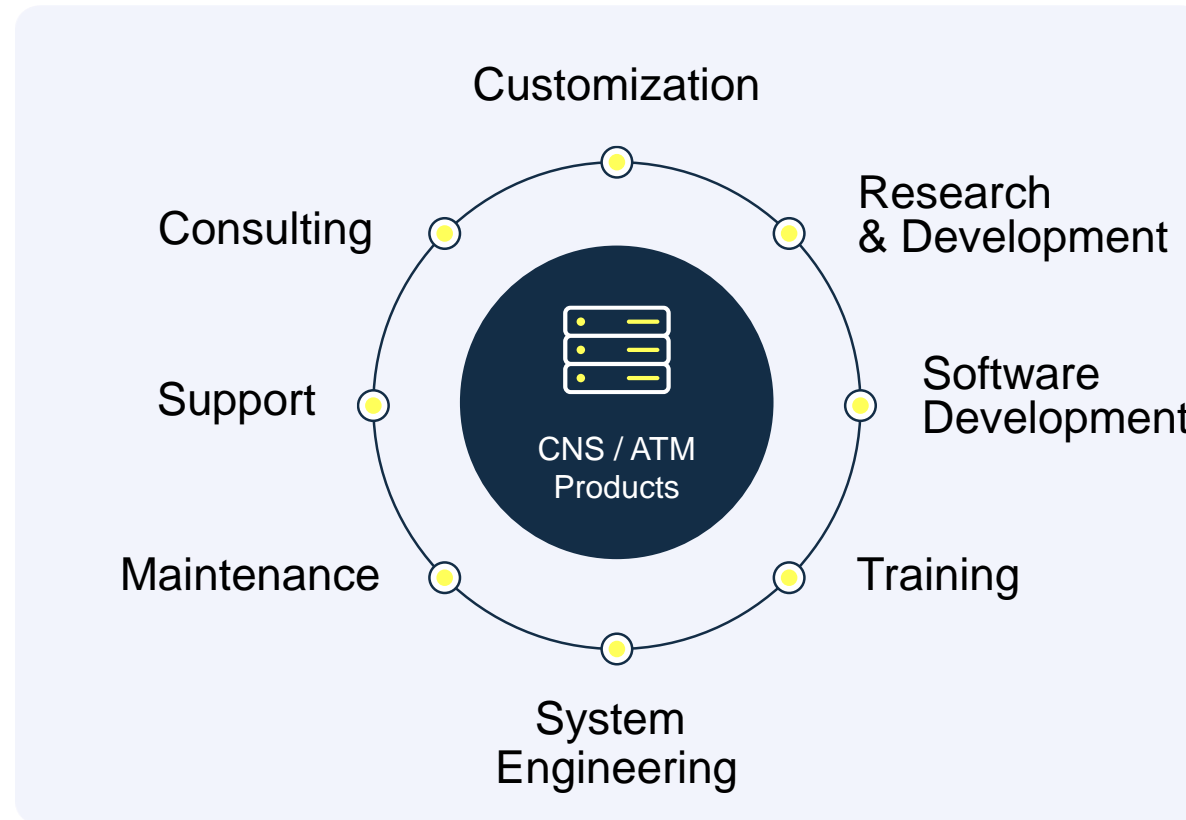
→ ATFM Merlin

→ AMHS Raven

→ Billing SKYBilling

→ GVD Squawker

# HOW CAN WE HELP YOU?





## OPEN MODULAR ARCHITECTURE

Surveillance Data Processing

Flight Data Processing

Conflict Detection

Recorder

Playback

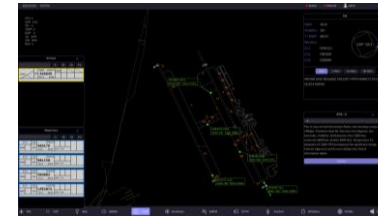
Reports and Statistics

Meteo Forecast

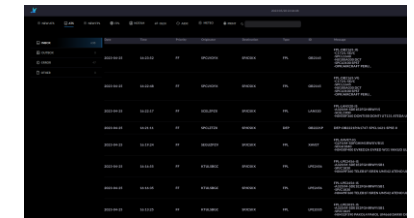
Artificial Intelligence



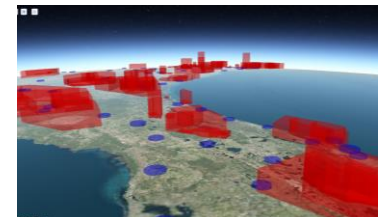
## PRODUCTS



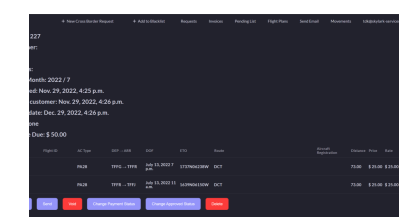
ATM System Galerida



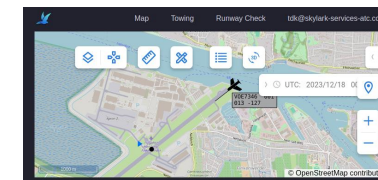
AMHS Raven



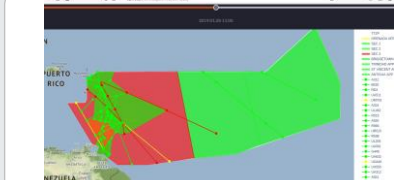
UTM SharedSKY



Billing SKYBilling



SVD Squawker

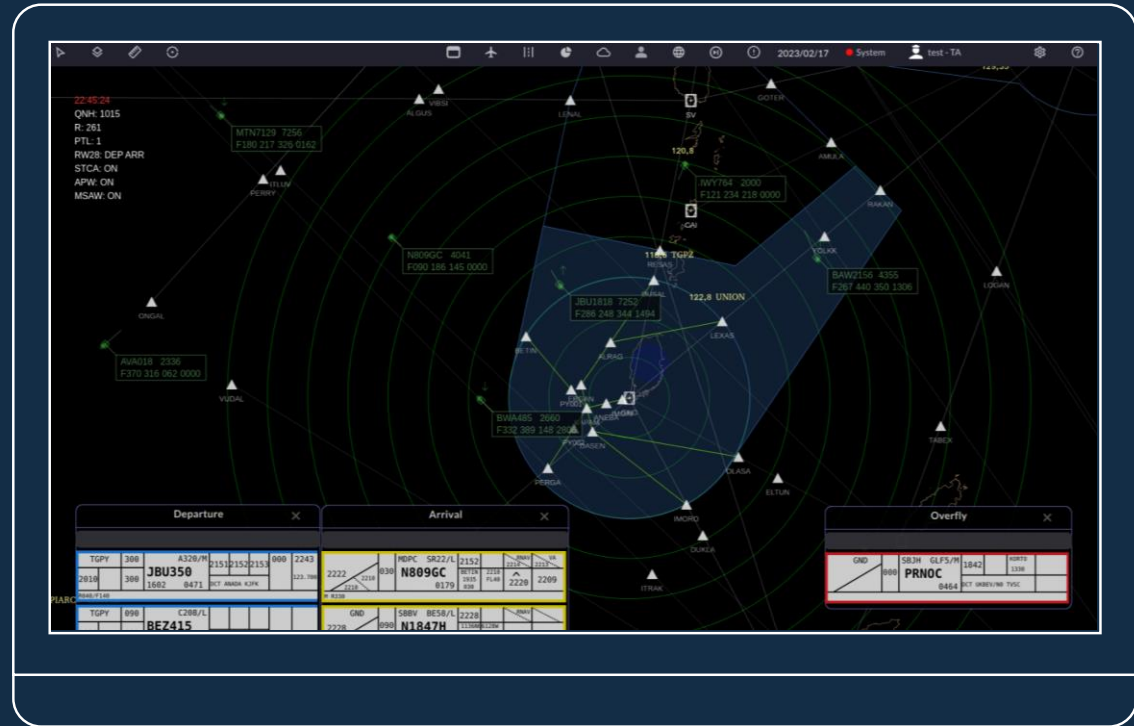


ATFM Merlin



# ATM GALERIDA

- Apron
- Ground
- Tower
- Approach
- En-Route
- Oceanic

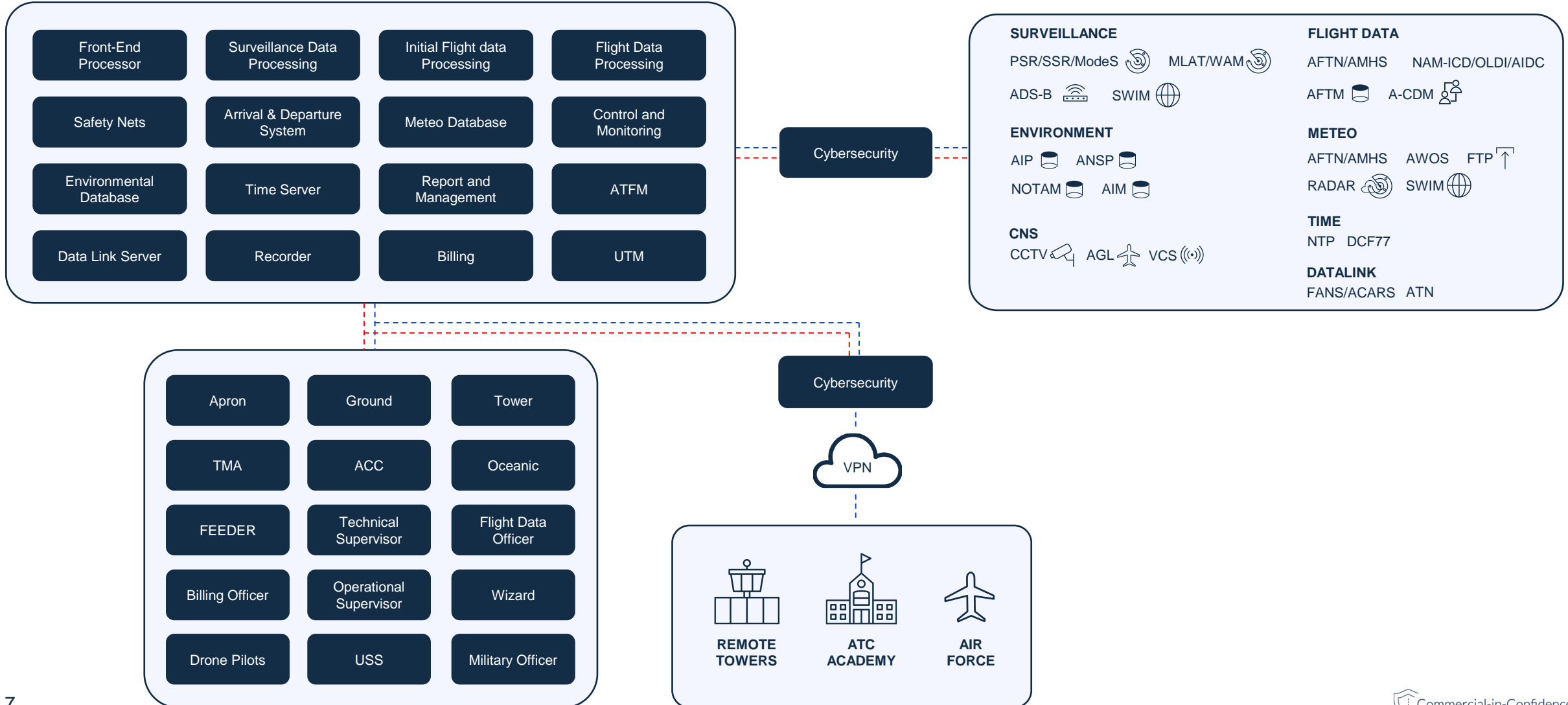




The **Galerida** stands as an advanced Air Traffic Management System, offering integration of Air Traffic Control, Airspace Management and Air Traffic Flow Management



# ATM GALERIDA





## INTEGRATED WORKING POSITION

2023/02/17 System test - TA

22:45:24  
QNH: 1015  
R-261  
PTL: 1  
RW28: DEP ARR  
STCA: ON  
APW: ON  
MSAW: ON

Departure		Arrival	
TGPN 300	A320XLR	MDPC SR22/L	2152
2910 300	JBU358	N809GC	0170
2952 090	C208/L	N1847H	0169

Overfly	
GRD 000	SRJH GLF5/M 1842
0864	KT 888V/M TRC

## A-SMGCS

2022/03/01 14:33:15 System Network admin

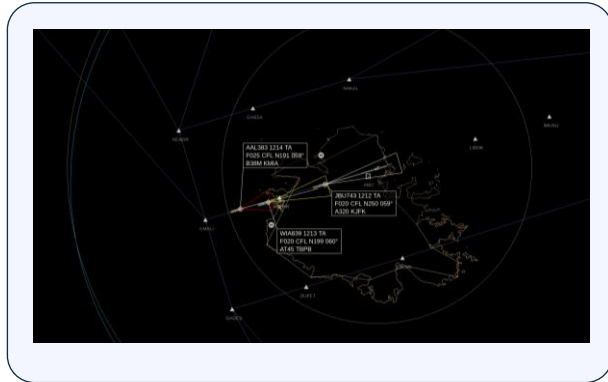
ATIS: A  
QNH: 1012  
TFL: #  
TEMP: #  
DWP: #  
SL: NON  
LSR: NON  
RWY: #

Departure		Arrival	
SPJC 1300	A320XLR	SKUR03	1311
1300	AEAL76	AVAD49	1311
1300	DAL150		
1300	LPE2073		

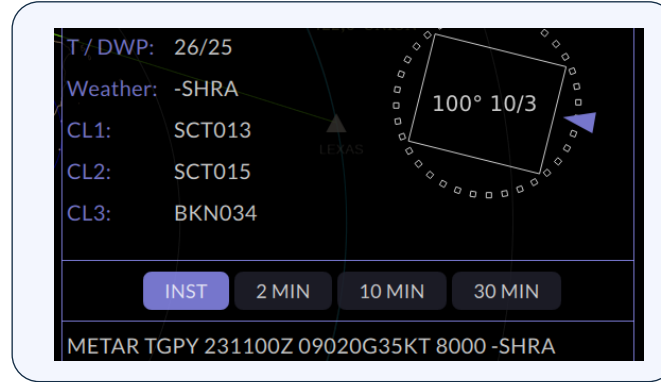




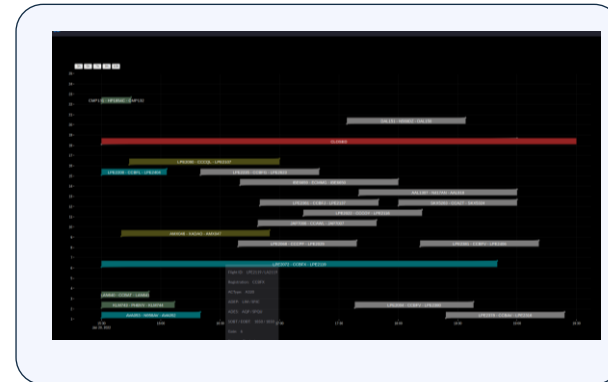
FSA



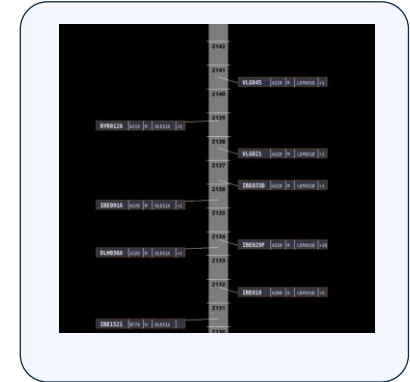
Meteo Forecast



DMAN



AMAN



E-Strips



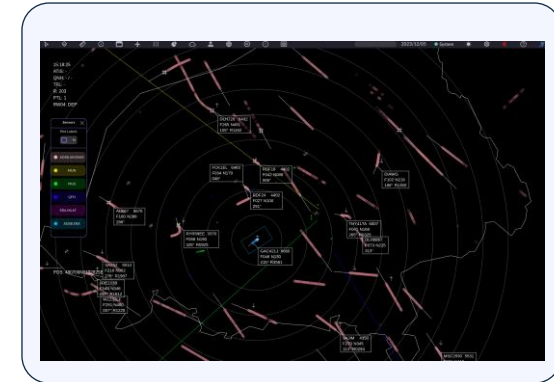
TBO



Safety Nets



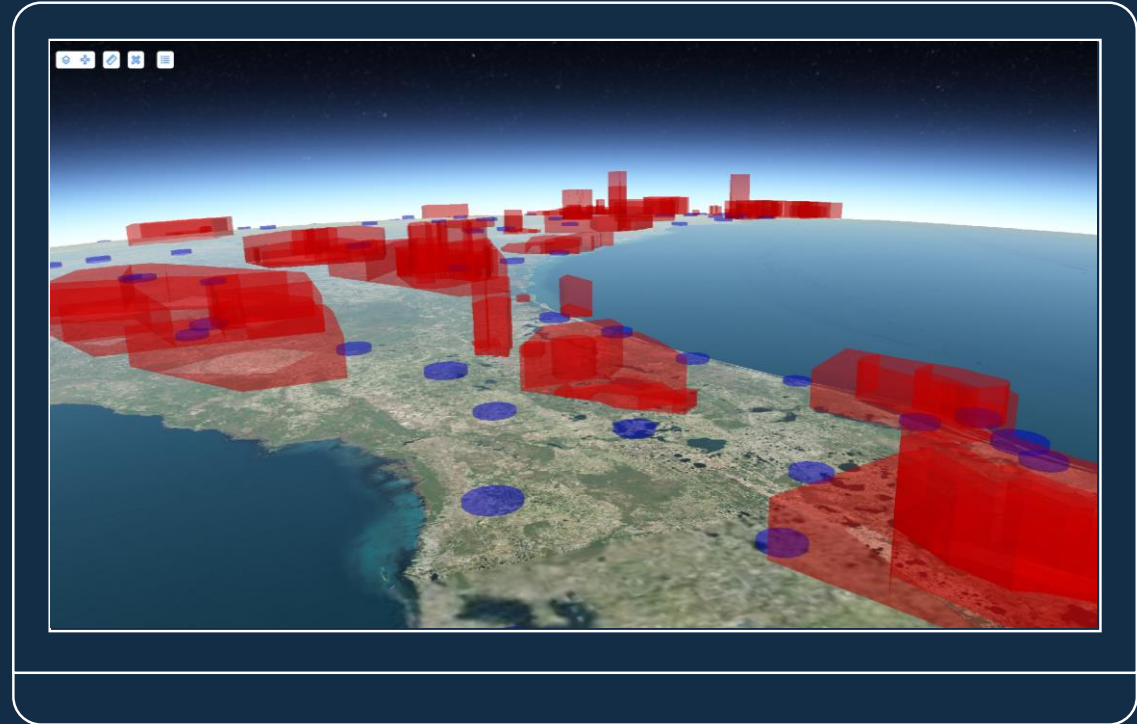
Multi-Sensors Tracking





# UTM SHAREDSKY

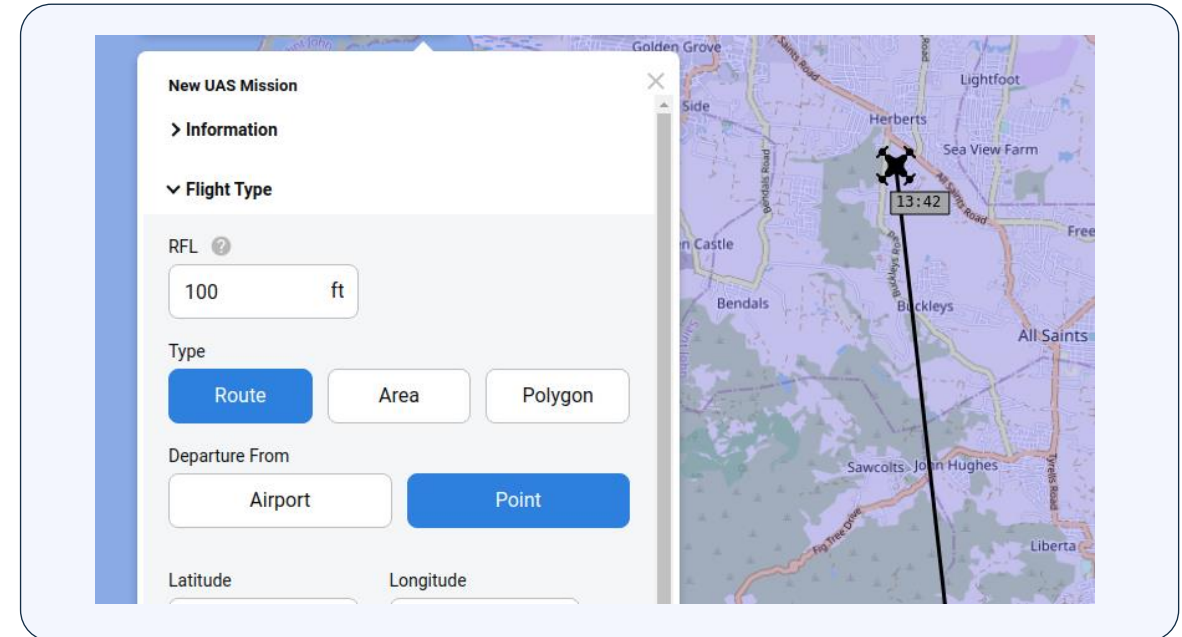
- Licensing
- Integration
- UAS Control
- Civil / Military
- [www.utmsky.com](http://www.utmsky.com)

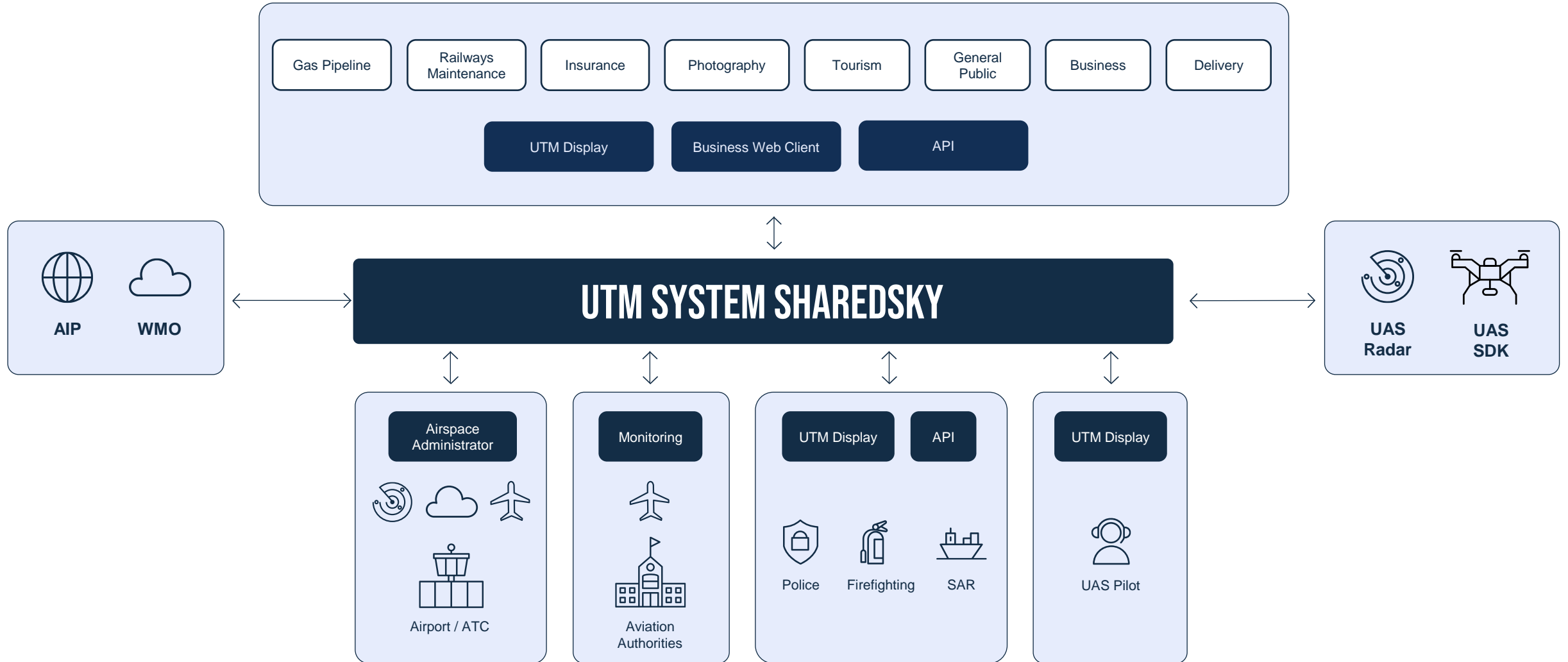


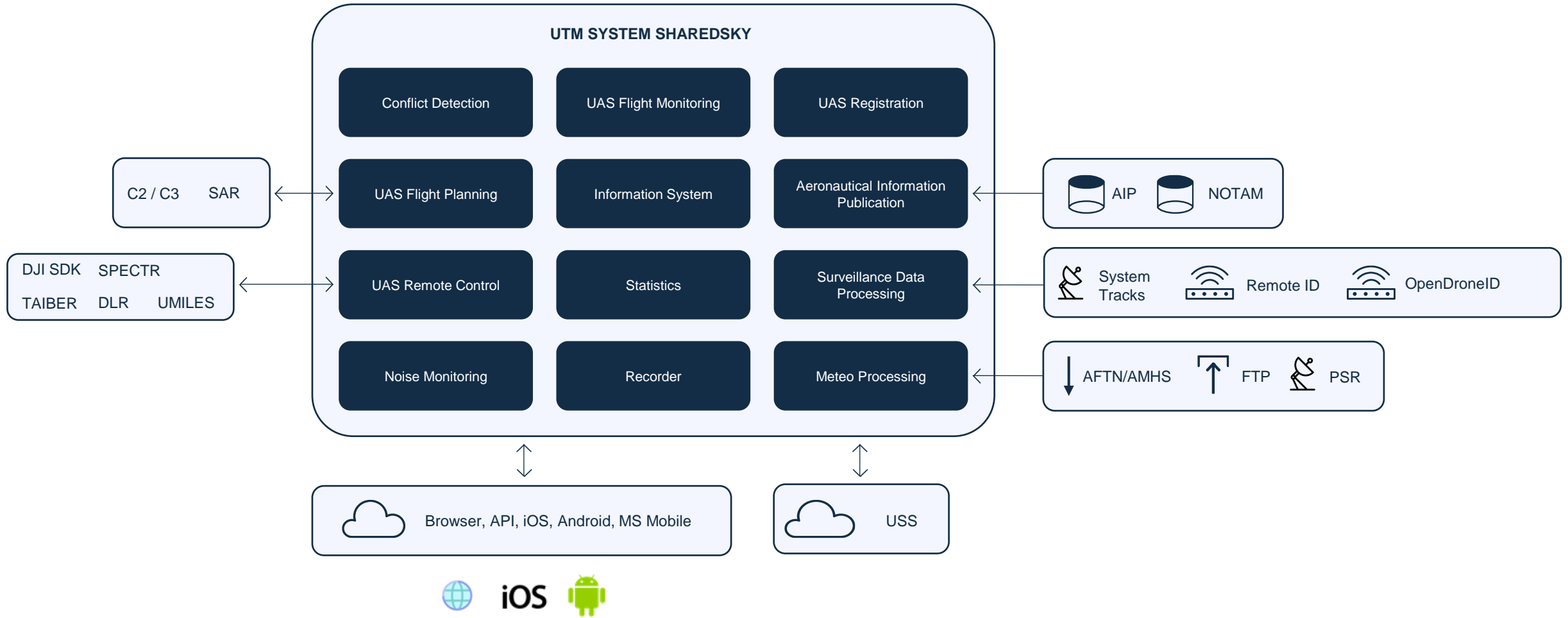


The system provides tools and features to manage UAS traffic:

- UAS Registration
- UAS Missions
- Airspace Administrator
- Detection & Avoid
- Military Actions
- Billing
- Safety Assessment
- Statistics

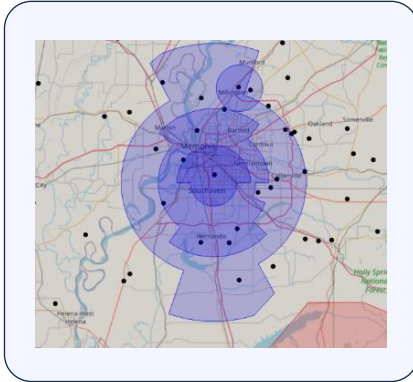




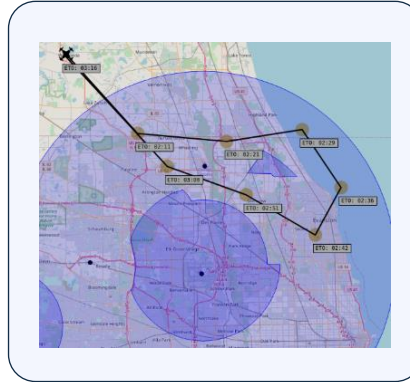




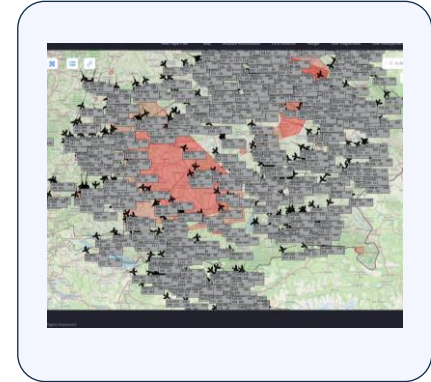
### Airspace



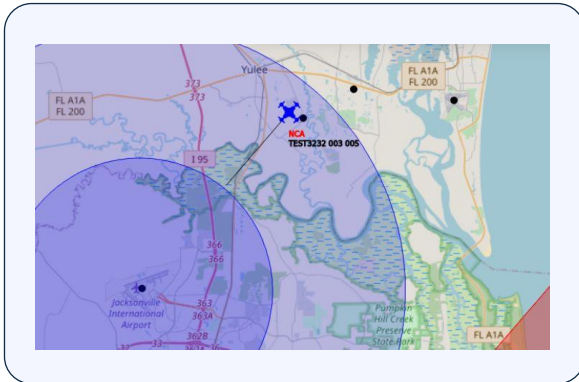
### Flight Planning



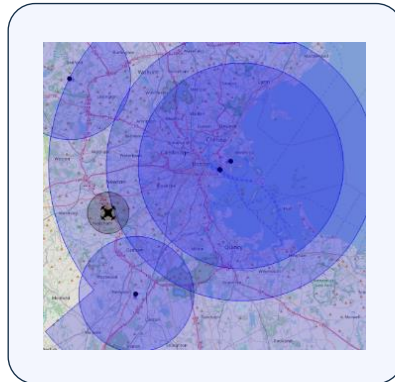
### Surveillance Awareness



### Flight Monitoring



### UAS Missions



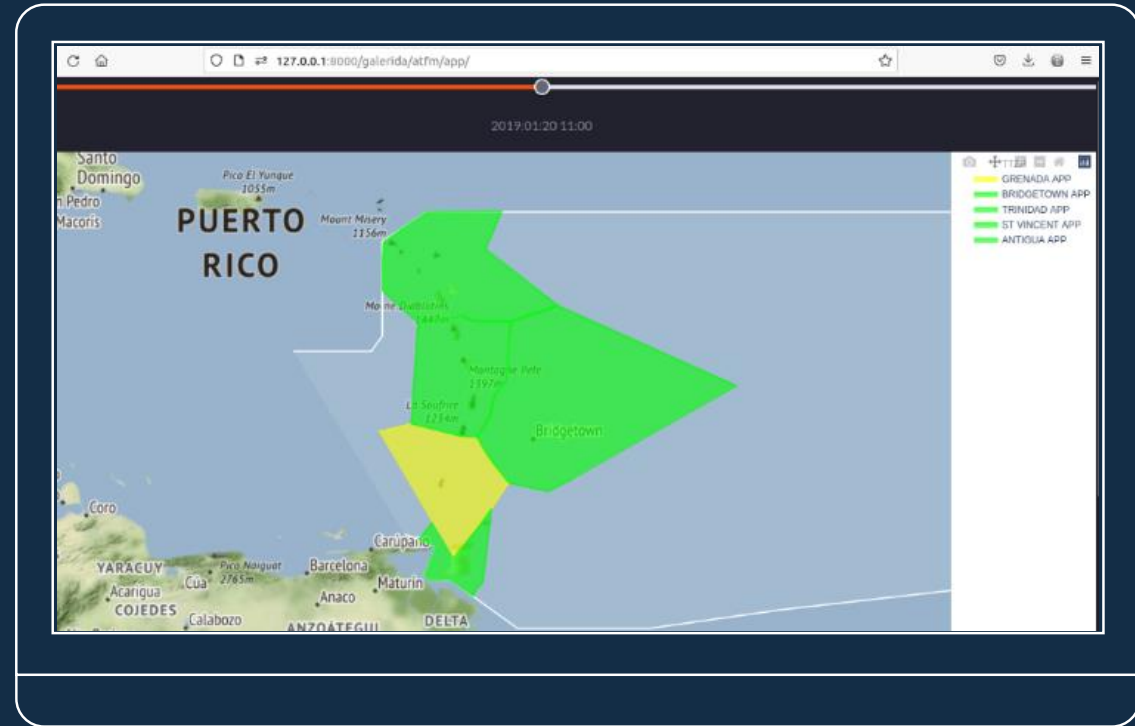
### Conflict Detection





# ATFM MERLIN

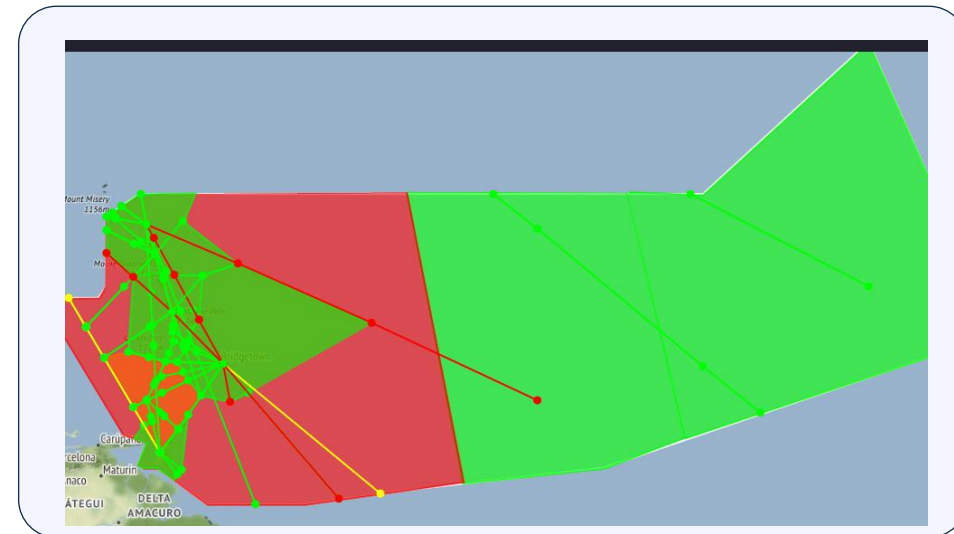
- Flow Management
- Shift Management
- Advisories





Merlin provides tools and features to manage Air Traffic Flow:

- Optimize available airport and airspace capacity
- Maximize operational benefits while maintaining agreed safety levels
- Promote timely and effective coordination with all affected parties
- Reduced fuel burn and operating costs







NEW

# AMHS RAVEN

- Communications
- Validation
- Distribution
- Filtering

2023/05/28 22:06:24

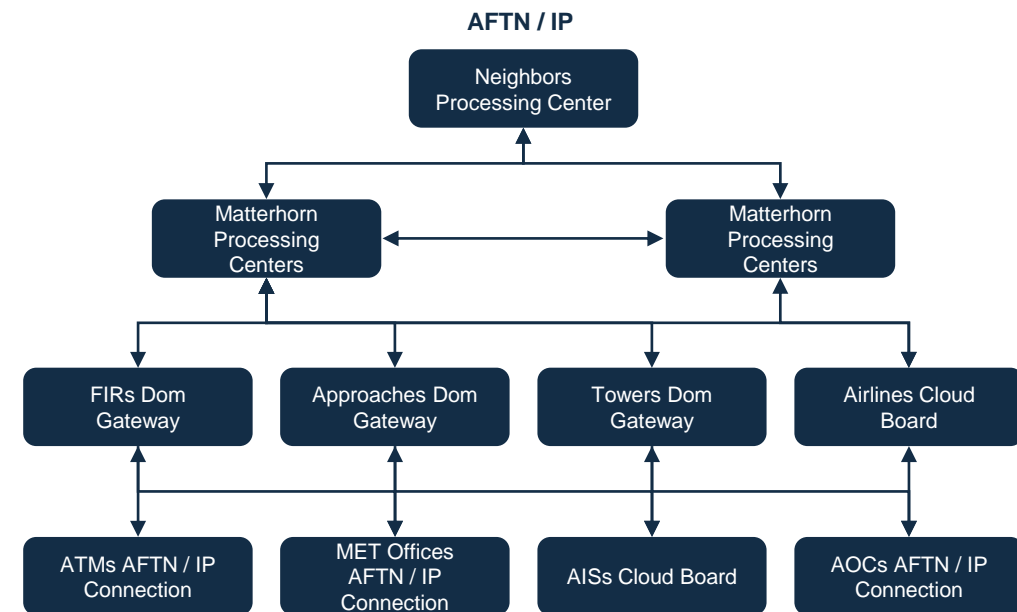
NEW ATS | ATS | NEW FPL | FPL | **NOTAM** | OLDI | AIDC | METEO | PRINT

	Date	Time	Priority	Originator	Destination	Message
NOTAMN 0						
NOTAMR 0	2023-04-25	15:31:24	GG	SPIMYNYN		C1666/23 NOTAMN QSPIM/QMRLT/IV/NBO/A/000/999/ ASPIR B2304251530 C2304251800 ERCR 16 5/5/5 1...
NOTAMC 0						
	2023-04-25	14:32:25	GG	SPIMYNYN		C1665/23 NOTAMN QSPIM/QFAS/W/M/A/000/999/ ASPTU B2304251430 C2304302300 EWDI RWY 19 U/S
	2023-04-25	14:15:03	GG	SPIMYNYN		A2129/23 NOTAMN QSPIM/QWFLW/IV/NBO/W/000/260/1547507150W000 ASPIM B2304251430 C2304252030 E...
	2023-04-25	14:13:12	GG	SPIMYNYN		A2128/23 NOTAMN QSPIM/QMTCM/IV/NBO/A/000/999/ ASPL B2304251410 C2304251440 EDTHR FST 0500M...
	2023-04-25	13:05:09	GG	SPIMYNYN		C1664/23 NOTAMN QSPIM/QFAAR/IV/NBO/A/000/999/ ASPN C B2304251303 C2304251400 EAFIS/RFFS AVBL...
	2023-04-25	12:45:07	GG	SPIMYNYN		C1663/23 NOTAMC C1661/23 QSPIM/QMNAK/IV/NBO/A/000/999/ ASPIJ B2304251240 EAPN AVBL



Skylark provides systems for the exchange of messages pertaining to the safety of air navigation, efficient and economical operation of Air Services:

- Aeronautical Fixed Service
- Global Network
- Routing
- Cybersecurity
- SWIM
- E-Briefing
- Cloud System
- SOA Architecture





Cloud **Board** is available for any users to manage the following messages:

- Free Text
- ATS Message
- AIDC / OLDI / NAM-ICD
- NOTAM
- Meteo

	Date	Time	Priority	Originator	Destination	Type	ID	Message
INBOX 64								
OUTBOX 3	2023-02-16	15:27:54	FF	TFFFZPXZ	TGPVATOM	DEP	FGXAS	DEP-FGXAS-TFFF1527-TGPY-DOF/230216
ERROR 40	2023-02-16	14:52:38	FF	TVSAZPXZ	TGPVATOM TGPVZPXZ TGPVZTZX	FPL	BEZ415	FPL-BE2415-IS-C208/L-SDFGVR/S-TVSA1850-N0160F060 DCT SV A324 GND DCT -TGPY0030 TTPP -PBN/B2D2 DOF...
OTHER 10	2023-02-16	14:15:30	FF	TTPPBWAO	TGPVATOM	FPL	BWA431	FPL-BWA431-IS-AT76/M-SDFGR/SB1-TGPY1545-N0228F120 DCT GND A324 DUKLA DCT NAPKO DCT LEXOR DCT TALU...
	2023-02-16	14:05:51	FF	KTULAALD	TGPVATOM	FPL	AAL2601	FPL-AAL2601-IS-B738/M-SDE3GHIJ4RWXZ/B1L-KMIA1535-N0461F350 KLADA2 BITAC Y290 HAGIT Y421 MEEGL L46...
	2023-02-16	13:56:34	FF	KDENXLDG	TGPVATOM	FPL	IWY714	FPL-IWY714-IS-E120/M-SDFGR/EB1-TBPB1550-N0277F140 DCT BGI A561 LEXAS DCT GND DCT -TGPY0034 TBPB ...
	2023-02-16	13:45:46	FF	TTZPZQZX	TGPVATOM TGPVZPXZ TGPVZTZX	DEP	BEZ416	DEP-BEZ416/A4350-TTPP1338-TGPY-DOF/230216
	2023-02-16	12:57:53	FF	KDCMYXX	TGPVATOM	FPL	BEZ416	FPL-BE2416-IN-C208/L-SDFGR/SB1-TGPY1457-N0168A070 DCT RESAS A324 SV DCT -TVSA0039 TFF -PBN/B2D2...

	Date	Time	Priority	Originator	Destination	Type	ID	Message
INBOX 64								
OUTBOX 3	2023-02-16	15:10:23	FF	TTZPZQZX	TGPVATOM TGPVZPXZ TGPVZTZX	ARR	N42MH	ARR-N42MH/A4340-TGP21300-TTPP1507-DOF/230216
ERROR 40	2023-02-16	14:07:03	FF	KAUSFFLX	TGPVATOM	FPL	MTN8113	FPL-MTN8113-IG-C208/L-SCDFGV/CB1-TLPC1845-N0166F100 DCT -TGPY0100 TVSA -DOF/230216 R...
OTHER 10	2023-02-16	13:32:48	FF		TDCFPZPX TDCFZTZX TDPDZPXZ TDPDZTZX TGPVZPXZ TGPVZTZX TVSAZPXZ		161332 TTPPZPXZ DEP-N81345-TTPP1315-TDCF-DOF/230216	
	2023-02-16	13:21:52	FF	KAUSFFLX	TGPVATOM	FPL	FGXAS	FPL-FGXAS-VG-C404/L-SY/C-TFFF1530-N0170A085 DCT -TGPY0055 TVSC-DOF/230216 ORGN/KAUS...
	2023-02-16	13:11:30	FF		TDCFPZPX TDCFZTZX TDPDZPXZ TDPDZTZX TGPVZPXZ TGPVZTZX TVSAZPXZ		161311 TTPPZPXZ FPL-N81345-VG-PA34/L-S/C-TTPP1230-N0150F085 DCT -TDCF0150 TLPL TFFF ...	



# SKY BILLING

- Online billing service
- [www.sky-billing.com](http://www.sky-billing.com)

The screenshot displays the Sky Billing web application interface. At the top, there is a navigation bar with links: '+ New Cross Border Request', '+ Add to Blacklist', 'Requests', 'Invoices', 'Pending List', 'Flight Plans', 'Send Email', 'Movements', and 'tdk@skylark-services'. Below the navigation bar, the main content area shows a summary of a flight request with the following details:

- Request ID: 227
- Operator: (blank)
- Status: (blank)
- Month: 2022 / 7
- Created: Nov. 29, 2022, 4:25 p.m.
- Customer: Nov. 29, 2022, 4:26 p.m.
- Due Date: Dec. 29, 2022, 4:26 p.m.
- Amount Due: \$ 50.00

Below the summary is a table with the following columns: Flight ID, AC Type, DEP → ARR, DOF, ETO, Route, Aircraft Registration, Distance, Price, and Rate. The table contains two rows of flight data:

Flight ID	AC Type	DEP → ARR	DOF	ETO	Route	Aircraft Registration	Distance	Price	Rate
PA28		TFFG → TFFR	July 13, 2022 7 p.m.	1737N06238W	DCT		73.00	\$ 25.00	\$ 25.00
PA28		TFFR → TFFJ	July 13, 2022 11 a.m.	1639N06150W	DCT		73.00	\$ 25.00	\$ 25.00

At the bottom of the table, there are five action buttons: 'Send', 'Void', 'Change Payment Status', 'Change Approved Status', and 'Delete'.



- Airport fees
- Overflight fees
- Collecting
- Accounting
- Invoicing
- Interfacing
- Online payment
  - Credit card
  - PayPal
  - Bank transfer

**Invoices**  
Total: \$ 6670860.00  
Download CSV

Reference	Year / Month	Airline	E-Mail	Address	Total Amount	Approved Sent	Due	Paid		
214	2021 / 7	Private			\$ 100.00	None	None	None	None	<a href="#">View</a>
215	2021 / 8	Private			\$ 100.00	None	None	None	None	<a href="#">View</a>
216	2021 / 10	Private			\$ 50.00	None	None	None	None	<a href="#">View</a>
217	2021 / 9	Private			\$ 125.00	None	None	None	None	<a href="#">View</a>
218	2021 / 7				\$ 150.00	None	None	None	None	<a href="#">View</a>
219	2022 / 1				\$ 65.00	None	None	None	None	<a href="#">View</a>
220	2022 / 4									

**Invoice 227**  
Customer:  
E-Mail:  
Address:  
Year / Month: 2022 / 7  
Approved: Nov. 29, 2022, 4:25 p.m.  
Sent to customer: Nov. 29, 2022, 4:26 p.m.  
Due to date: Dec. 29, 2022, 4:26 p.m.  
Paid: None  
Balance Due: \$ 50.00

ID	Flight ID	AC Type	DEP -> ARR	DOF	ETO	Route	Aircraft Registration	Distance	Price	Rate	Weight
3529		PA28	TFFG - TFFR	July 13, 2022 7 p.m.	1737N06238W	DCT		73.00	\$ 25.00	\$ 25.00	2240.00
3528		PA28	TFFR - TFFJ	July 13, 2022 11 a.m.	1639N06150W	DCT		73.00	\$ 25.00	\$ 25.00	2240.00

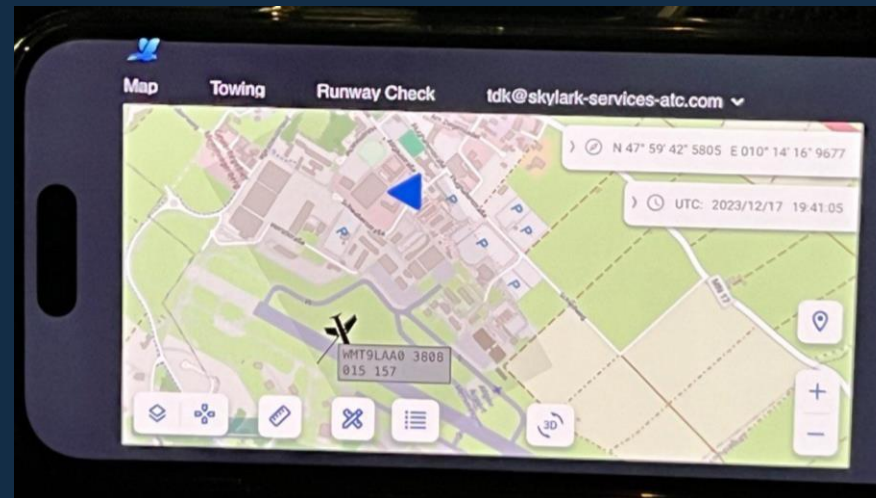
Buttons: [Back](#) [Send](#) [Void](#) [Change Payment Status](#) [Change Approved Status](#) [Delete](#)



NEW

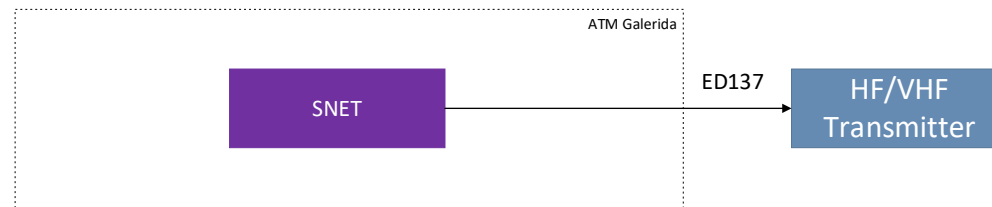
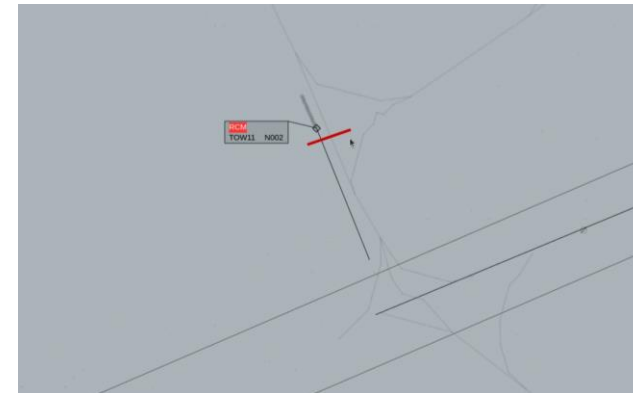
# SQUAWKER

- Runway / Taxiway Crossing Monitor
- Ground Safety Nets
- Ground Vehicle Display



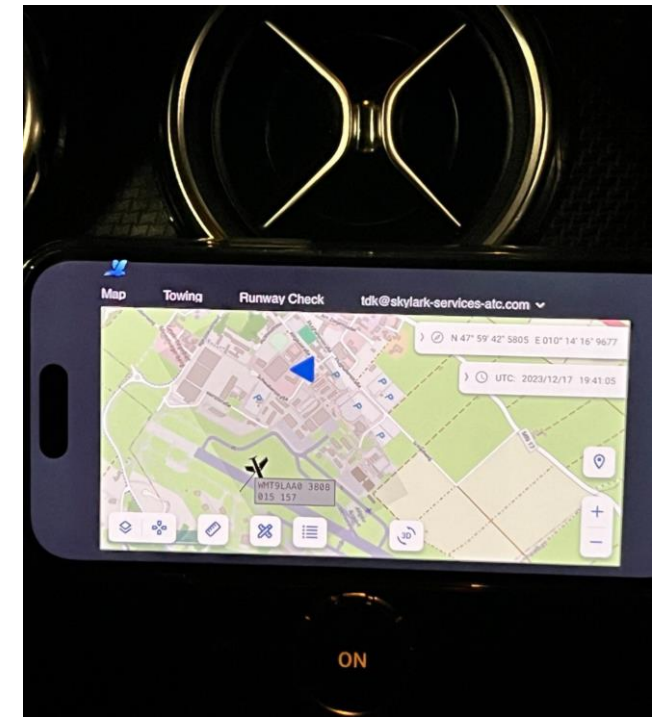
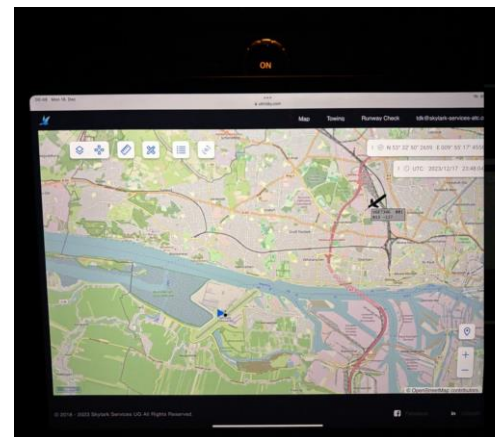
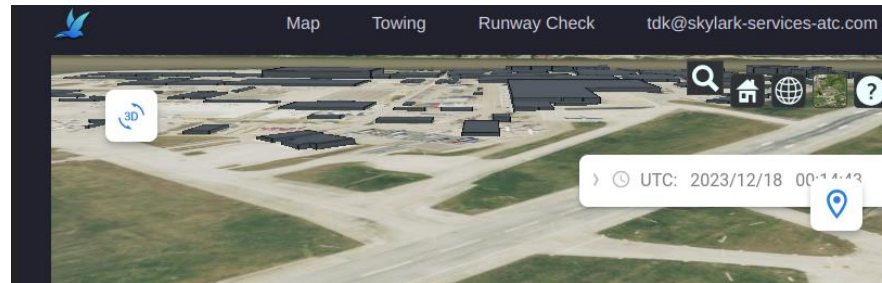
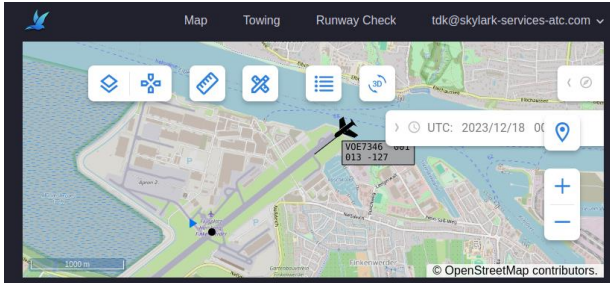


The system equips ATCO with tools to present and oversee warnings and alerts pertaining to Ground Safety Nets. The module is programmed to replicate human speech patterns and deliver essential messages for managing air and ground traffic





The **Squawker** serves as a cloud-based and mobile application designed for installation in ground vehicles. Its purpose is to facilitate communication between ground vehicles and Air Traffic Control (ATC) or Apron Control





# SUPPORT



- 20+ years Life-cycle
- Long-term Capacity
- Research & Development
- Customization
- Latest & Greatest
- Future Technologies are included

