

FIDS

T-Systems Airport User Days & Conference
September, 7-8 2023

T Systems

Let's power
higher performance



**This presentation contains confidential information and is distributed on the understanding that it will not be used, in whole or in part, in any form or made available to any third party, except for participants of the User Conference and employees of the respective airport companies.*

Agenda

- 01** Customer Overview
- 02** FIDS Product Vision and Transition Strategy
- 03** New FIDS Features
- 04** UI Demo / Q&A



01

Customer Overview

T Systems

Let's power
higher performance



FIDS Customers around the Globe



02

FIDS Vision and Development Strategy

 **T Systems**

Let's power
higher performance

FIDS Product Vision

What is important for any Airport using Passenger Information Systems?

System Availability

Flexibility

Costs

Support Quality

Business Requirements

Man Power / Effort

Customer – Manufacturer Relationship

Offline Operation

Future Proof Setup

Reliability

ACRO – Our NextGen Airport Management Platform

Modern Architecture/ Open platform

- Modern micro-frontend architecture
- Event-based integration
- Open & accessible platform
- Fully scalable for best performance during read & write.
- Customer specific/task-based frontends

Operational Efficiency

- Configure application to fit specific workflow
- Configure processes
- Pro-active collaboration

Efficient Deployment Options

- Service based , deploy services what customer wants
- Various deployment models(on-Premise, Cloud, Hybrid)

Enhanced User Experience

- Personalized & intuitive
- Modern well-crafted Dashboard
- Context-based widget communication



FIDS Product Vision

T-Systems FIDS goes Acro Product Vision

Acro Platform

- Envisaged Framework for T-Systems Airport Management Suite
- unify all Major T-Systems Portfolio Elements into one Portal/Framework
 - AODB
 - RMS
 - FIDS, etc.

Unified Technology Approach

- Flexible On-Premise Platform (Kubernetes/ Docker/ OpenShift)
- External Cloud

Deployment

- Future Proof - Big Developer Team Working on same Tech Stacks
- Patch, Update, Security Services out of one Source
- User Experience through one Look and Feel approach with individual Dashes
- CI/CD concepts
- Ongoing Development from Base to Top

FIDS Product Vision

T-Systems Product Vision

Smooth Transition,
Moving encapsulated Components towards new technology



- Minimize operational Risks and Effort
- Transition through Evolution
- Optimize Time to Market

Not forcing customers to „Big Bang“ cutover

- Reduce Invest
- Downwards compatible
- Implement&Influence System enhancements & Deployment on the move



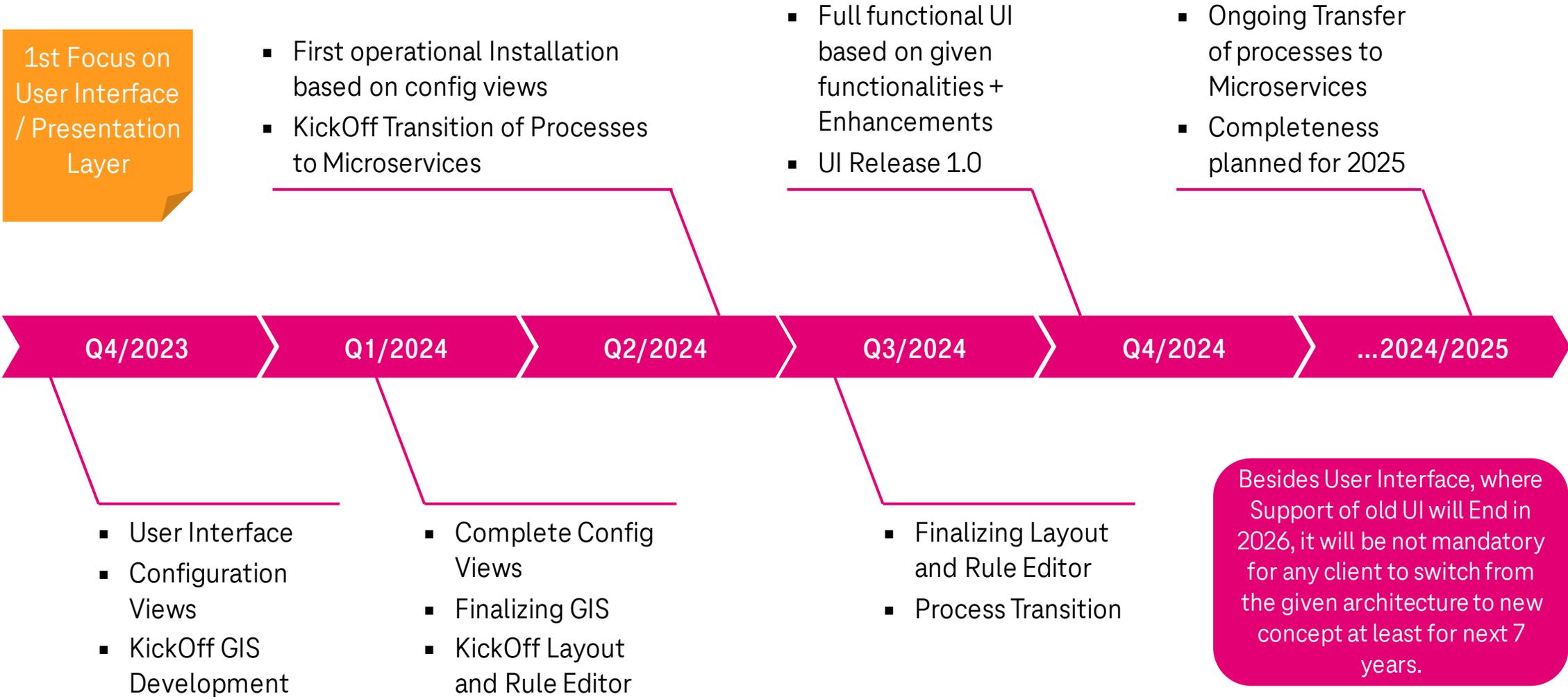
BIG Bang – Major Software Renewal / all components



FIDS Product Vision

T-Systems Product Development Timeline

1st Focus on User Interface / Presentation Layer



Besides User Interface, where Support of old UI will End in 2026, it will be not mandatory for any client to switch from the given architecture to new concept at least for next 7 years.

03

New & planned FIDS Features and Demo

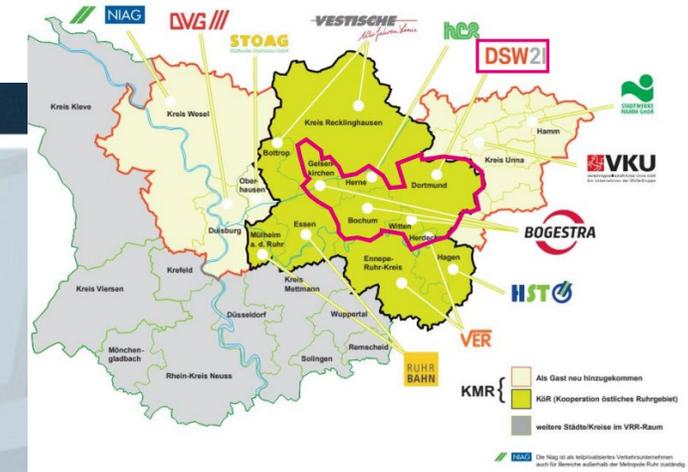
FIDS – goes Rail and Street

T-Systems

Kategorie	Zug	Abfahrt	Gleis
U	RB 81	10:43	60-E
U	ICE 1579	10:46	12
U	RE 80	10:47	6A-C
U	ME RB41	10:52	14
U	RE 7	10:53 +8	13D-F

Kategorie	Linie	Abfahrt	Gleis
S	3	sofort	
S	U4	in 5 min	
S	S31	in 6 min	3
S	S3	in 6 min	4
S	S1	in 6 min	1
BUS	6	in 6 min	
BUS	3	in 7 min	
U	U4	in 7 min	
BUS	37	in 7 min	
BUS	5	in 8 min	
BUS	17	in 9 min	
BUS	31	in 9 min	
S	S21	in 9 min	4
BUS	2	in 9 min	
BUS	2	in 9 min	
U	U3	in 10 min	

FIDS contracted to serve Public Transport in Germany largest Metropol Area



Car Sharing



5 min

2 Fahrzeuge

Taxi



3 min

3 Fahrzeuge

Bike Sharing



4 min

7 Fahrzeuge

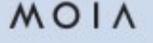
Scooter



3 min

8 Scooter

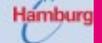
Autonom



6 min

Keine Fahrzeuge verfügbar

Shuttle



4 min

3 Shuttle

Integration with Mobility concepts Carsharing etc.

FIDS new Features

Native Samsung Tizen Application



Support for Samsung SoC using Samsung Tizen WebApp
For usage of Webis Client in Terminal operation

Linux based DDS



Linux Driven DDS available
Decrease of Services possible
Reduce Server infrastructure significantly.

Automated Power Switch usage



Integration of Server and Business Logic control of Display Power Connectors
Save energy and automatically switch Devices down to 0 Watts if not in use

FIDS Screen synchronization



DJACO enhanced Sync functionality.
Balances heterogen Hardware Load by using a Master DJACO trigger Signal.

FIDS new Features

IoT Sensors at DJACO Controller



Integration/Usage of any IoT Sensors on DJACO Controllers
Data Transfer through FIDS IoT Databroker
No additional Infrastructure required

Direct Public Transport Interfaces



Complete Integration of Public Transport Datasources in Germany (VDV)
FIDS in use at Public Transport Companies in Germany

FIDS for in BUS Signage



Use your FIDS System to inform Passengers in Transfer Buses
No separate System required
In Bus Hardware needs to be compatible to run the Client also in offline mode

Integrated Grafana based Monitoring



Monitor System overall health status in Configurable Grafana Dashboards and configure your own Alarms and Thresholds.

FIDS – BuildIn Advertising Module and CMS

Detail View

File ID: American airlines

File type: image

File name: American-Airlines.jpg

PCX logo file: 69

Logo number: 69

Media width: 940

Media height: 470

Comment: American airlines image for testing

Advertisement:

Preview:

Buttons: OK, Zurücksetzen, Abbruch

1st Manage Content and mark as "Commercial"

Playlists

Name: newTest

Description: testing purpose only

Valid From: 05/01/2023 12:16:58

Valid To: 06/04/2023 12:16:58

Media thumbnails: 003_d5s.mp4, png21.png, aa.jpg, b18.png

Search By Name: 33 Media Count

2nd Create Playlists by Drag'n'Drop

Channel View

Channels: Channel terminal 2, Channel area B, Channel Desks, Channel baggage belts monitor, Channel Gates, Channel for Airline LH

Calendar: June 2023, July 2023, August 2023

Timeline: 00:00 to 01:15

Default Playlist: Name: Advertising, Duration: 00:08:20

3rd Define where and when to call a specific campaign

Advertisement Report

Filter: Event Time From: 06/01/2023 07:29:09, Event Time To: 06/23/2023 07:29:09

Channel: Select a Channel, Playlist: Airlines

Device: Select a Device, Page: Select a Page

Load Data

Playlist TI	Channel TI	Device TI	Event Time	Page Name TI	Layout TI	Frame TI	Frame Row TI	Column TI	Sheet TI	Content TI	Previous Content TI
Airlines	Channel for Airline LH	FB-FID-MON-49	6/1/2023, 11:13:45	9903	KUT_PUB_ARR_DEF_LIST	BDY_BASE_SHUTTER_4X50	1	WERBUNG1	HH_SHEET1	ARR_PA_BIBT	ARR_PA_FLIGHTNUMBER

4th Get a report what has been shown where and when

FIDS Acro Integration Concepts & Demo

The dashboard shows the following overview statistics:

- DDS Overview:** 6 DDS Configured (Active - 4, Inactive - 2). Status: 2 OK, 1 KO, 1 ERROR.
- Display Devices (DJACO) - Overview:** 60 Display Monitors Configured (Active - 40, Inactive - 20). Status: 30 OK, 1 KO, 9 ERROR.
- Display Devices (WEBIS) - Overview:** 20 WEB Monitors Configured (Active - 20, Inactive - 0). Status: 18 OK, 1 KO, 1 ERROR.

A map view on the right shows the physical layout of the servers and monitors.

Network Configuration - Distribution Servers

Active	DDS No	Description	Comment	Standby DDS	IP Address	Inventory No	Location	Control Port	Data Port	Type	Release
✓	DDS-1	Distribution Server 1	test	DDS-2	10.10.232.11	IV01AB231	DC-Rack 1	25017	25019	Windows	V22.2207
✓	DDS-2	Distribution Server 2	test	DDS-1	10.10.232.12	IV01AB232	DC-Rack 1	25017	25019	Windows	V22.2207
✗	DDS-3	Distribution Server 3	test	DDS-4	10.10.232.13	IV01AB234	DC-Rack 2	25017	25019	Windows	V22.2207
✓	DDS-4	Distribution Server 4	test	DDS-3	10.10.232.14	IV01AB237	DC-Rack 2	25017	25019	Windows	V22.2207

Details Modal:

- Active:**
- DDS No:** DDS-2
- Description:** Distribution Server 1
- Standby DDS:** DDS-1
- Comment:** This is a test comment
- IP Address:** 10.10.232.12
- Control Port:** 25017
- Data Port:** 25019
- Release:** V22.2207
- Location:** DC-Rack-1
- Inventory No:** IV01AB232

Network Configuration - Distribution Servers

Active	DDS No	Description	Comment	Standby DDS	IP Address	Inventory No	Location	Control Port	Data Port	Type	Release
✓	DDS-1	Distribution Server 1	test	DDS-2	10.10.232.11	IV01AB231	DC-Rack 1	25017	25019	Windows	V22.2207
✓	DDS-2	Distribution Server 2	test	DDS-1	10.10.232.12	IV01AB232	DC-Rack 1	25017	25019	Windows	V22.2207
✗	DDS-3	Distribution Server 3	test	DDS-4	10.10.232.13	IV01AB234	DC-Rack 2	25017	25019	Windows	V22.2207
✓	DDS-4	Distribution Server 4	test	DDS-3	10.10.232.14	IV01AB237	DC-Rack 2	25017	25019	Windows	V22.2207

Details Modal - Properties:

Property	Comment	Default	Value
BRDeviceDDS	alternative ip address for clients to connect to		
BRReboot	Autoreboot	Yes	No
BRDownloadCommon	Download resource files	No	
BRDownload	Download Yes/No	No	No
BRTimeBroadcast	Enable time telegram f. dZine,Jaco	Yes	
HTTP_PORT_DL	http server download port	20080	80
BRPorts	Number of DDS ports	16	
FS_PASSWORD	Remote access: password		

FIDS Acro Integration Concepts & Demo

Demonstration of FIDS @ ACRO

Thank you!

Stefan Szymanski
Product Owner FIDS
Airport Management

stefan.szymanski@t-systems.com

+49 241 9197349

Lukas Wilke
IT-Consultant
Airport Management

lukas.wilke@t-systems.com

+49 171 8470302

T Systems

Let's power
higher performance