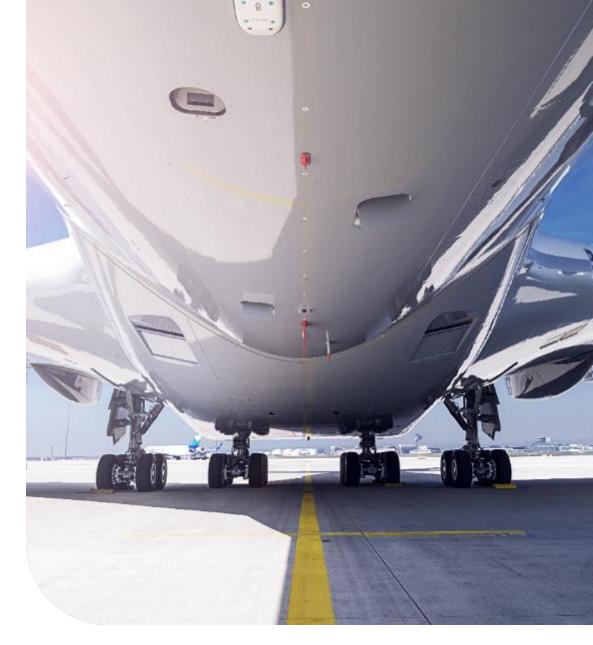




Agenda

- 01 Company overview
- 02 Initial situation
- 03 Bidirectional MINT-GEMS interface
- **04** Additional functions
- 05 Q&A session









Market leader for technical MRO training







The origin of our expertise

500

24.11.2025

Page 5

Customers worldwide





Multi-certified training organization

with training centers in Germany and abroad



2 Boeing **737**

as well as engines and landing gears





Type Training instructors

Basic & Vocational Training instructors



14.000

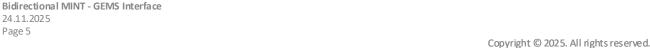
p.a. training days



100%

Subsidiary of Lufthansa Technik AG







02

Initial situation

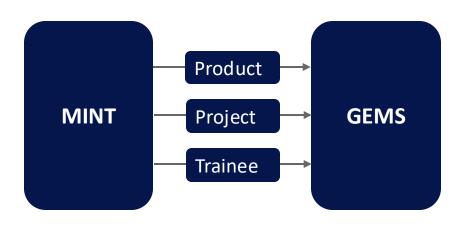
Where do we come from?



State overview

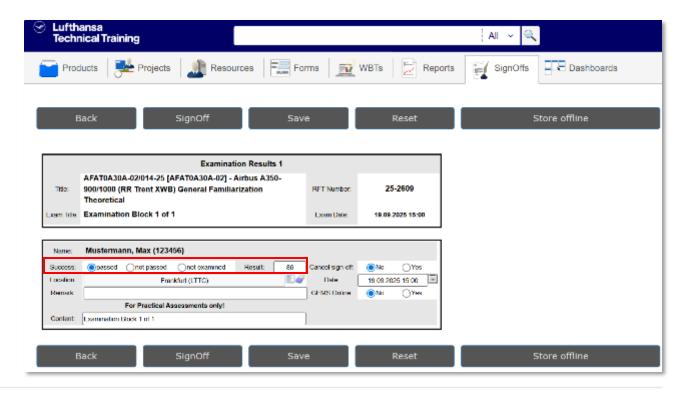
Data transfer

→ One data dump per day without any modifications in GEMS



Execute sign offs after examination in GEMS

→ Manual entry of examination results and success rate





L₀₃

Bidirectional MINT-GEMS Interface

What do we want to achieve?



Goals

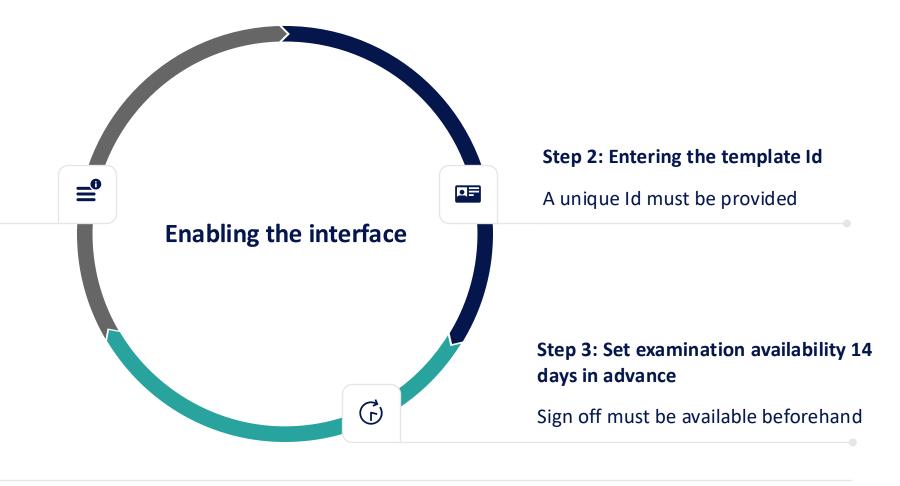
Mainly work in MINT	 Time efficiency
Automatic transmission of GEMS examination data	 Time efficiency
Create examinations for GEMS in the MINT system	 Time efficiency
No manual entry of examination data	 Avoid mistakes
Send product data from MINT	 Insert & MODIFY for EACH SINGLE product
Send project and trainee data from MINT	 Insert & MODIFY for EACH SINGLE project



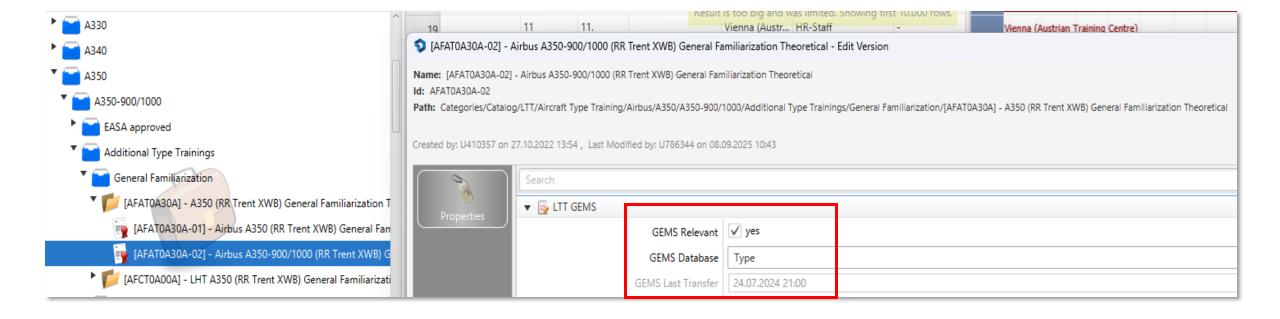
3 Steps for a functional interface

Step 1: Fill the properties

- GEMS Relevant
- GEMS Database
- GEMS Last Transfer

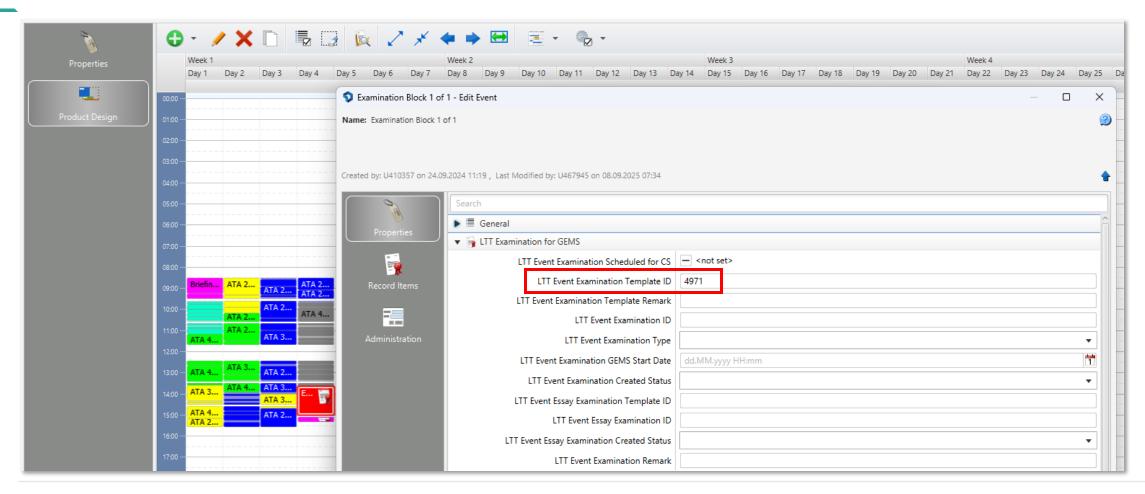


Step 1: Fill the properties in the product



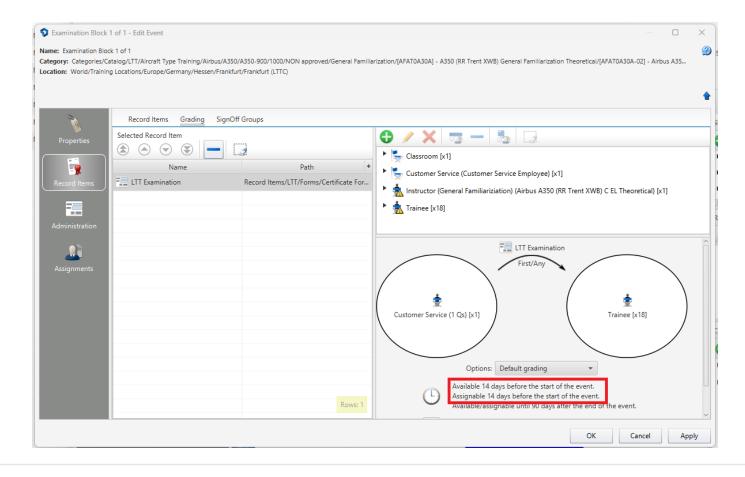


Step 2: Entering the template Id in the examination event



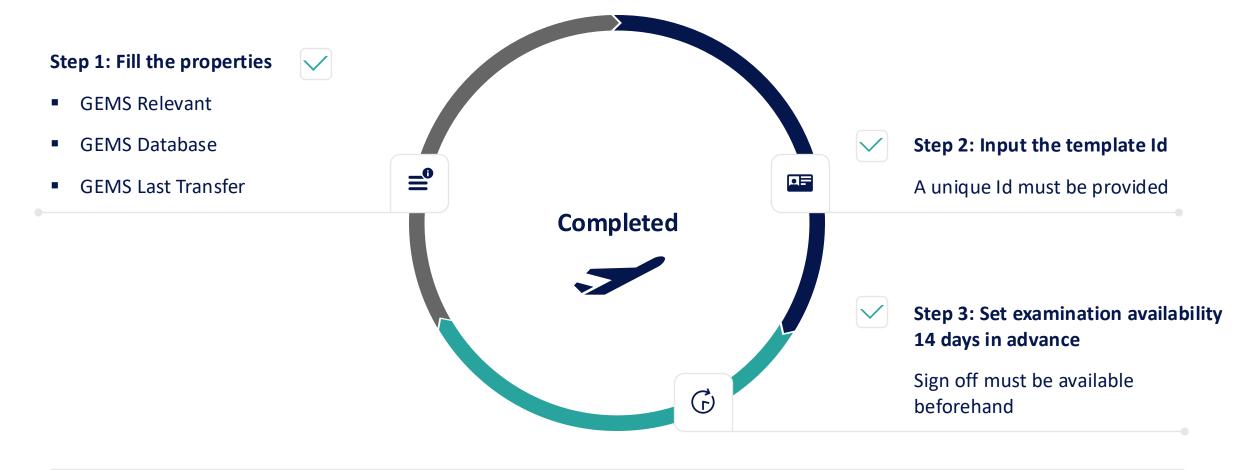


Step 3: Set examination availability 14 days in advance





Pathway to the updated sign-off form

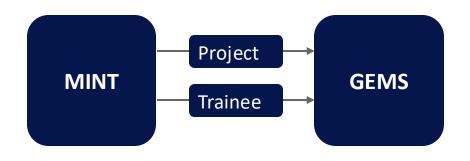


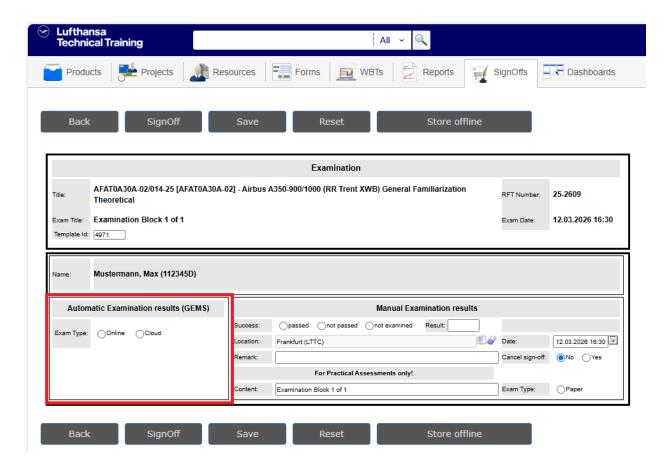


Introducing the updated sign off form

New: Possibility to create an online or cloud-based exam

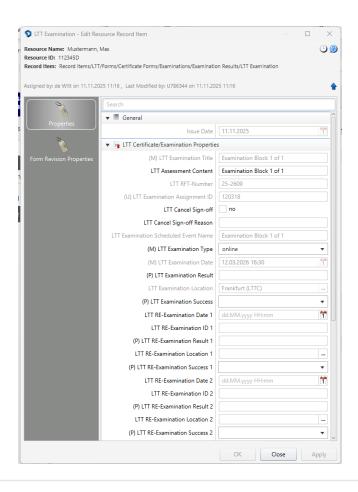
→ Examination results will be automatically transmitted to MINT







Data transmission after sign off examination from MINT to GEMS



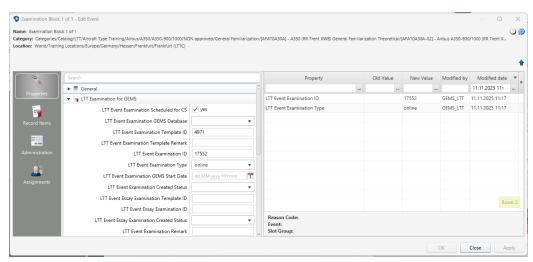


```
"start": "2025-09-19T11:40:00.000Z",
"author": {
  "firstName": "Annette",
   "surname": "de Witt".
   "email": "annette.de-witt@ltt.dlh.de",
   "customIdentifier": {
       "key": "resource object key",
       "value": "90764"
"type": "online",
"examiners":
       "firstName": "",
       "surname": "",
       "email": "",
       "customIdentifier": {
         "key": "resource object key",
          "value": "null"
"location": {
  "name": "Frankfurt (LTTC)",
   "customIdentifier": {
     "key": "location object key"
```



Data transmission after examination creation from GEMS to MINT

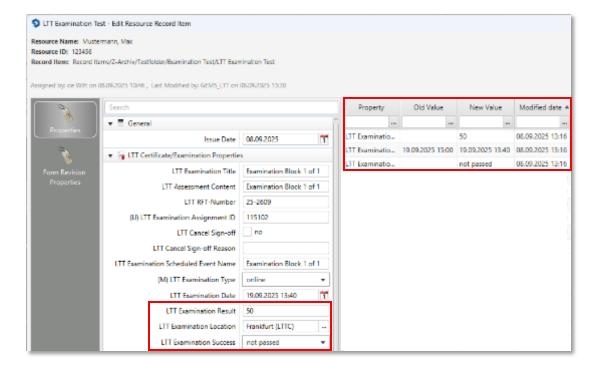






Data transmission of examination results from GEMS to MINT

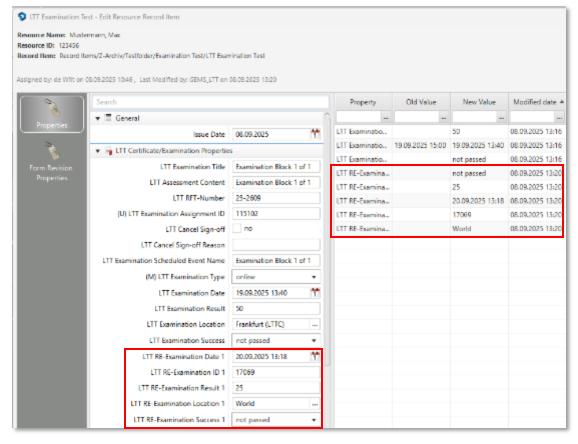






Data transmission of re-examination results from GEMS to MINT







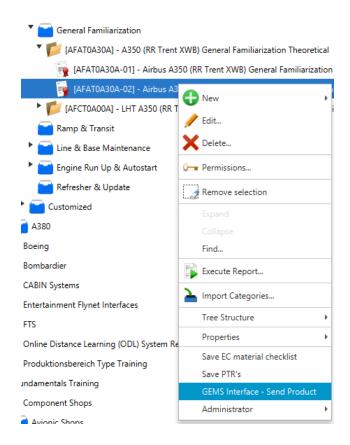
04

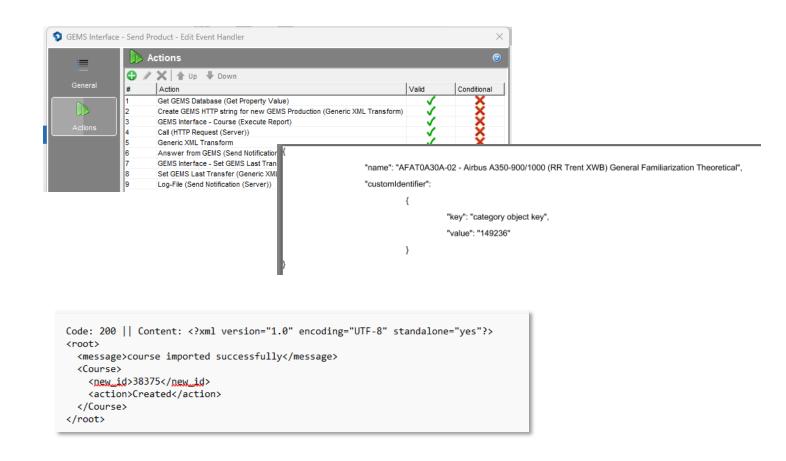
Additional functions

What else do we need?



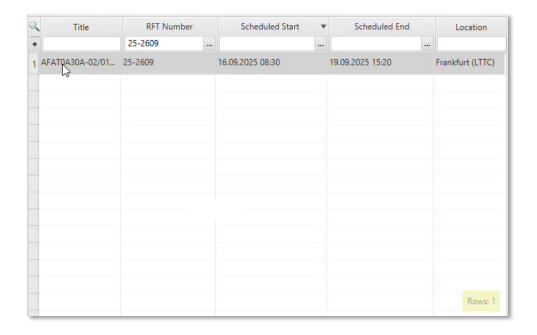
Data transmission of product data from MINT to GEMS







Additional examination Eventhandler functions



Create paper examination in GEMS

Paper examination can be created via a link and the Sign-Off's can be used for manual entry after the examination



	Examination - Overview													
	AFAT0A30A-02/014-25 [AFAT0A30A-02] - Airbus A350-900/1000 (RR Trent XWB) General Familiarization Theoretical (25-2609)													
RFT Number	Sched. for CS	Name	Start	End	Location	Examiner	Trainee No.	GEMS Database			Exam Id Essay	Examination Remark	Exam Status	Restore Sign-Off's (only for online/cloud sign off's without any exam results)
25-2609 (AFA	25-2609 (AFAT0A30A-02/014-25 [AFAT0A30A-02] - Airbus A350-900/1000 (RR Trent XWB) General Familiarization Theoretical)													
	yes	Examination Block 1 of 1	12.03.26 15:10	12.03.26 16:30	Frankfurt (LTTC)	Thorsten Hinz	3	Туре	4971				Create Paper - Examination in GEMS	Restore Sign Off's not possible for the Exam



Restore sign off's for trainees

Restore sign-off's for all trainees

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Examination - Overview														
AFAT0A30A-02/014-25 [AFAT0A30A-02] - Airbus A350-900/1000 (RR Trent XWB) General Familiarization Theoretical (25-2609)														
RFT Number	Sched. for CS	Name	Start	End	Location	Examiner	Trainee No.	GEMS Database			Exam Id Essay	Examination Remark	Exam Status	Restore Sign-Off's (only for online/cloud sign off's without any exam results)
25-2609 (AFA	25-2609 (AFAT0A30A-02/014-25 [AFAT0A30A-02] - Airbus A350-900/1000 (RR Trent XWB) General Familiarization Theoretical)													
	yes	Examination Block 1 of 1	12.03.26 15:10	12.03.26 16:30	Frankfurt (LTTC)	Thorsten Hinz	3	Туре	4971	17552			Exam already available	<u>Restore Sign Off's</u>

Restore sign-off's for **selected** trainees

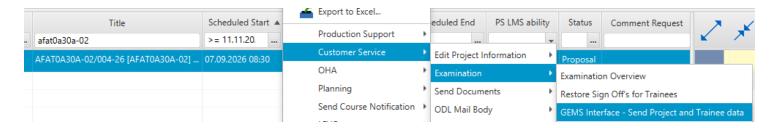
Lufthansa Technical Training

Restore Sign Off's for Trainees												
AFAT0A30A-02/014-25 [AFAT0A30A-02] - Airbus A350-900/1000 (RR Trent XWB) General Familiarization Theoretical (25-2609)												
RFT Number	Name	Start	End	Location	Trainee No. Examination Id MC Examination Id MC Examination Id Examination Si (only allowed for sign off) and without any exami							
25-2609												
	Examination Block 1 of 1 12.03.26 15:10 12.03.26 16:30 Frankfurt (LTTC)											
				de Witt, Annette (786344D)	1	17552		no Restore Sign Off available				
				Kobayashi, Hiyori (487945C)	2	17552		no Restore Sign Off available				
					Mustermann, Max (112345D)	3	17552		Restore Sign Off			



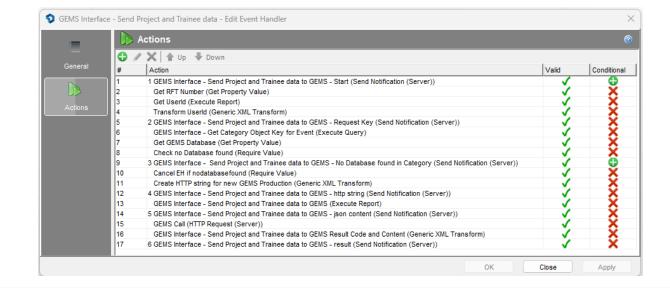
Data transmission of project and trainee data from MINT to GEMS

Send project and trainee data



without any examination information

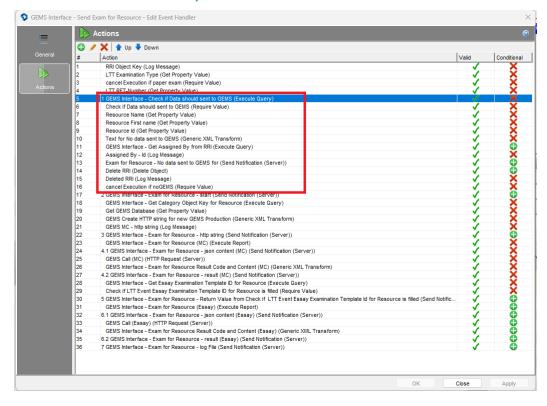






Automatic Restore sign off

Checking whether data are complete in MINT to create an examination in GEMS



→ RRI delete and error mail for customer service team



L₀₅

Open session

If you have any questions, please let me know.



Thank you for your attention!

The successful implementation of the interface would not have been possible without the support of **ASTech** – thank you for an excellent collaboration.



