Graduate Training Integration Management System (GTIMS)

Version 1.7.12.B
Release Notes
Northrop Grumman Corporation (NGC)
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SUMMARY

The Graduate Training Integration Management System (GTIMS) Version 1.7.12 includes 14 STRs and a refactoring to the schema behind organizations.

Additional modifications were made via the Redmine process.

1712B includes the following additional issue resolutions:

- Addressed a performance issue encountered when a user with a large number of permissions opens the Scheduler.
- Fixed an issue occurring both in Class AutoLayout and Apply Schedule Line Templates where non-Flight, non-Device schedule lines (e.g. Academics) could not be scheduled.

GENERAL

Organization Schema Change

Many of the STRs for 1712 were targeted for AMC and had requirements to track and report data at the group level. Our schema for organizations was not flexible enough to allow defining new organization levels. Because of this we revamped the schema that underlies organizations to support a more dynamic definition of organizations. We also developed a new UI written in C# for Organization Definition that works with this new schema. This new UI is accessible from the System Manager.

We minimized the impacts to the software by updating the database view V_TRNORG_ROLLUP to continue to return the same results. However, this only works when the defined levels are Wing, Squadron, HQ, and Flight. In limited scenarios, we have added support within the software for other levels. However, this was limited to the set of functionality currently used by AMC.

NOTE: Adding new levels to T_TRNORG_TYPE_LU is only supported in the AMC configuration of GTIMS in support of AMC’s usage of Stan/Eval related functionality. Doing so at other locales will result in failure of the application. For all other locations, DO NOT MAKE CHANGES TO THE CURRENT ORGANIZATION HIERARCHY in an attempt to take advantage of this dynamic organization hierarchy.

STR 621 - SDC 3.2 Compatibility for GTIMS

STR Description: We need to create an STR for TIMS and an STR for GTIMS that will test each program’s compatibility with SDC 3.2. Office 2010 is being added in SDC 3.2. We have not received a task from AETC/A6 yet but expect one in the near future. Our goal is to get a jump on this one so there are no surprises.

There were no significant changes made for this STR. Minor modifications were made to components that interface with Microsoft Office applications such as the Word and Excel to ensure these applications continue to work in the SDC 3.2 environment. Other changes were made to the GTIMS installation to remove components that are no longer used or supported. Most notable, the legacy Gradebook application (which has been replaced by the Training Jacket) was removed from the install. The legacy Gradebook no longer functions due to numerous changes that have been made to the schema since the Training Jacket was deployed.
Stan/Eval

A number of changes were added to enhance the support of Stan/Eval at the request of AMC. There was also one STR to enhance Stan/Eval operations for AETC.

STR 623 – Gradebook Trending (AMC Option 2)
STR Description: Develop and deliver software modifications to create the Stan Eval trending functionality in Stan Eval grade sheets. Grade sheets will be modified to enable users to select one or more Trend Reasons for a grade sheet item to indicate why a specific grade was chosen by the evaluator.

In order to support this STR, we have implemented a new Trending Editor within the Syllabus Designer. This allows definition of Trending Items, Values, and Subcategories. Trending subcategories can then be mapped to event items in a given syllabus via a new Matrix View.

Once a syllabus has been setup to be “trendable”, the gradesheet will support logging of trending values. Trending values can be entered and viewed within the item comments dialog.

There is no requirement at this time to support reporting of actual trending data as entered on gradesheets.

STR 624 – Support for Flight Crew Bulletins (AMC Option 3)
Develop and deliver software modifications to enable flight crews to automatically print out current FCBs/FCIFs, and FCBs/FCIFs scheduled to take effect during the time span a crewmember is scheduled to be off-station

To support this STR, a “Create Electronic Read Packet” was created within Go/No Go Status Viewer. This allows the user to export all reads for personnel to a folder on the local computer. The exported reads can then be moved to a mobile or other device. Reads are exported to PDF and can be viewed and printed using a PDF reader application.

STR 625 - Support for the Stan/Eval Board a.k.a SEB (AMC Option 4)
STR Description: Develop and deliver software modifications to create the functionality to support the Stan Eval Board Process. Functionality will include electronic manipulation of the SEB form where agendas can be created, qualifications can be imported, documentation inserted, and CAC signoff for Board members and Commander.

In order to support Stan/Eval Boards and Reviews and Certification, GTIMS 1712 includes a more general solution to support boards that occur periodically. This capability can be accessed via Review & Board Status in Ops Manager. This component allows the user to create and manage boards. Boards can be one of 3 types: Stan/Eval Board, Review and Certifications, or Other. Each type is permissions driven allowing the end-user to manage access to boards by type. Once a board has been planned for a specific date, it can be opened and edited within a Reviews & Board Management UI. This UI supports: defining attendees, managing meeting minutes, managing attachments, and accessing data from GTIMS through configurable data widgets. The data widgets allow querying data within GTIMS for data that is commonly required for a Stan/Eval Board or Review and Certifications. The data widgets supported
include: Attendees, Certifications, Decertifications, Evaluations, Examinations, Exceptionally Qualified, No-Notice, Unit Manning and Waivers And Extensions. Data provided within a data widget can be exported to Excel to facilitate formatting and copying into the meeting minutes.

The following permissions are used within the Review & Board functionality:

- Review and Board - Manage SEB: Allows the user to manage Stan/Eval Boards for a given organization.
- Review and Board - Manage R & C: Allows the user to manage Reviews and Certifications for a given organization.
- Review and Board - Manage Other: Allows the user to manage Other Boards for a given organization.
- No-Notice - Manage, No-Notice - View: Either of these permissions is needed to access no-notice data within the No-Notice data widget.
- Unit Manning - View, Unit Manning - Edit: Either of these permissions is needed to access unit Manning data within the Unit Manning data widget.
- Stan/Eval-Manage: This is required to access data in all other data widgets.

STR 626 - Support for Reviews and Certifications, a.k.a R&C (AMC option 5)
STR Description: Develop and deliver software modifications to create the functionality to support the Review and Certification Process. Functionality will include electronic manipulation of the R&C form where agendas can be created, Certifications can be imported, documentation inserted, and CAC signoff for Board members and Commander.

See the description for STR 625 for a description of how the Reviews and Boards capability will support a Reviews and Certifications process.

STR 627 - Support for digital signatures on Form 8s (AMC option 6)
STR Description: Develop and deliver software modifications to enable Digital Signatures on Form 8s. Digital signatures allow creating a document in which the authenticity can be validated after signing. This means that a digitally signed document cannot be changed without automatically invalidating the document and provides confidence that the document has not been modified since it was signed. To support digital signatures of Form 8s, GTIMS creates a PDF version of the Form 8 and digitally signs that PDF with a certificate from the user’s CAC. Stan/Eval Management has been upgraded to support a digital signature process for a Form 8 after it has been submitted, signed, and updated with all signature comments. The digitally signed Form 8 can be accessed at any time after the digital signature process has begun. The digital signature process is optional and can be required or prevented at an organizational level using new settings in Stan/Eval setup.

STR 628 - Provide support for the Stan/Eval No-Notice Program (AMC Option 7)
STR Description: Develop and deliver software modifications to create the functionality to support the Stan Eval No-Notice Process. Functionality will enable users to monitor, display, and track No-Notice Eval rates during a user specified time span. A report will be generated depicting the No-Notice rate data.
To support this STR, we have added a No-Notice Status component to the Ops Manager. This component allows tracking progress towards meeting annual no-notice requirements. It allows you to configure the number of no-notices required based on a percentage of qualified personnel assigned to the unit or a static number of required no-notices. Furthermore, you can configure the component to take credit for a prorated number of no-notices. The component provides situational awareness by listing the specific no-notice Form 8s that count towards the requirement, a list of qualified personnel in the unit with their last no-notice date, and graphical display of monthly or quarterly no-notice distribution by qualification level. Ultimately, the data tracked in the No-Notice Status component is reported on the No-Notice data widget within Reviews and Boards.

The following permissions are used within the No-Notice Status component:
- No-Notice - Manage: Allows defining and editing of no-notice data for a given organization.
- No-Notice - View: Allows viewing of no-notice data for a given organization.

STR 629 - Provide support for Unit Manning (AMC Option 8)
STR Description: Develop and deliver software modifications to create the functionality to support the Squadron Manning and Tracking Processes. Each Unit will be able to designate the crew types and number of slots authorized by the command. Each Unit will be able to match crew member names to these slots. This data will be used in the Stan Eval module to calculate proper Evaluation statistics based on the manning structure of the unit. A unit Manning report will be generated.

To support this STR, we have added a Unit Manning Status component to the Ops Manager. This component is used to track the number of required evaluators by platform and crew position and specifically which personnel are used to meet these goals. Availability can be specified on an evaluator by evaluator basis and the component will show any gaps in coverage where the number of available evaluators does not meet the goal. Ultimately, the data tracked in the Unit Manning Status component is reported on the Unit Manning data widget within Reviews and Boards.

As part of this STR, we also moved over the changes from JPATS STR 6641: Pull Aircraft and Duty Position from ARMS automatically into the Go/No-Go module. This STR allows the system to be configured to get Aircraft and Duty code assignments from ARMS. This will help ensure the accuracy of the data that is used by Unit Manning Status, No-Notice Status, Crew and Duty Position Management, and other components of GTIMS.

The following permissions are used within the Unit Manning Status component:
- Unit Manning - Edit: Allows defining and editing of unit manning data for a given organization.
- Unit Manning - View: Allows viewing of unit manning data for a given organization.

STR 632 - Issue with Q3 Ground Check on GTIMS Form 8 - IC 8930
STR Description: First change if a aircrew member receives a Q3 evaluation and the training can be completed on the ground a new flight requisite must be added that is titled GROUND RECHECK. This requirement was completed by creating a new Flight Requisite. The issue is that when you have 2 separate instructors sign the Form 8 the persons signature that goes into section 3 for flight examiner is the Flight examiner that administered the Q3 evaluation. The second examiners signature who administered the recheck will be documented under the second sortie on the back of the form. Currently the system documents the person on the incomplete sortie on the back of the Form 8 and the person who
For this STR, Stan/Eval Management was upgraded to allow marking a given requisite as a “Ground Recheck”. Furthermore, Stan/Eval Setup also allows predefining a requisite as a “Ground Requisite”. By definition, the examiner that shows on the front page of the Form 8 is the last examiner that did not do a Ground Recheck. In Stan/Eval Management, a “Primary Examiner” examiner checkbox was added for each examiner. Checking this checkbox for a given examiner will override the default logic and that examiner will always show on the front page. With these changes in place, the Form 8 Report was upgraded to support this new logic for the front page examiner. Furthermore, the signature of any examiners that did a Ground Recheck now shows in the Additional Comments section.

STR 631 - Automatic grade of Q-3 when two or more U's are assigned on a Stan/Eval gradesheet

STR Description: During an on-line Stan/Eval training session on 27 Jan, Ryan & I overheard the 58th SOW/OGV (Stan/Eval personnel in the AETC wing at Kirtland AFB) state: "An evaluation with 2 or more U’s on the gradesheet (AF Form 3862) is an automatic overall Q-3." This arose during a discussion of grading critical items either a "Q" or "U."

I later contacted Keith Kolb (he was conducting the training) to determine if this is a local standard, or if it applies AETC-wide. He replied with a quote from the current AFII1-202, Vol.2 AETC Supplement dated 7 Dec 2010: "5.3.3.2.2. (AETC) When a non-critical area/subarea is graded U, serious consideration should be given to assigning an overall grade of Q-3. When two or more non-critical areas/subareas are graded U, the overall grade will be Q-3."

Thus, this is an AETC requirement for evaluations. We will likely see this issue arise as the Stan/Eval module is deployed in 1.7.13. and might want to check with AETC if this is something we should do with our gradesheets for both GTIMS & TIMS.

This is the only Stan/Eval STR in this build that was added specifically for AETC. This STR was simply implemented as 2 new rules that display when submitting a Stan/Eval gradesheet in the Training Jacket:

- Rule 1: Warns the user that the overall grade should be Q3 when 2 or more non-critical Items have failing grades ‘U’ assigned
- Rule 2: Prevents submission of a gradesheet when 1 or more critical items have been graded ‘U’ and at least one of the overall qual grades is not Q3.

Scheduling and Flight Record

STR 557 - Night Flying Time Issues - AFI Defines Night by Civil Twilight

STR Description: Request a change to GTIMS in the calculation of night time by using the end to the beginning of civil twilight and ensure that crews do not log more than what has been calculated.

Our squadrons have identified an error in the calculation of night time on the Flight Records (under Flight Data). Apparently it is calculating from official Sunset to Sunrise.
AFI 11-401, 10 Dec 2010 states: 3.4.1. Night Time. The portion of primary, secondary, instructor, or evaluator flight time logged between the END OF EVENING CIVIL TWILIGHT and the BEGINNING OF MORNING civil twilight, as published in the American Air Almanac. This requirement has been in the regulations since 2002.

For this STR, the Flight Record and Scheduler were updated to now use civil twilight when calculating night time. The impacts to the Flight Record are limited to the night time calculation on the 781. The Scheduler impact is limited to conflict checking for events that occur specifically during night or day. To prevent adversely impacting non-Air Force customers, the Scheduler change is based on a new Scheduler Planner Option “Compute Scheduler Night/Day Conflicts using Civil Twilight Instead of Sunrise/Sunset.”

REPORTS

STR 648 – Change to Form 4327a Flight Authorization to include DSN and fax number
STR Description: Received this email today from HARM Chief concerning item 17 on the 4327a (Flight Authorization, Unit Designation and location of authorizing agency) needing the DSN and fax number added. This may probably need to be applied GTIMS wide due to it being an AFI change. Could this information be added to the T_TRAN_BASE table in the ZIP_CODE_TX column as a fix or does it need a script to be created? Talked with Tracy earlier about it and he was unsure. Included email info as addition guidance.

As requested, the organization DSN and fax number have been added to the 4327A (Crew Flight Authorization Report). This information was previously not kept in GTIMS. In the new Organization Definition UI in Ops Manager, we have added Unit Phone, DSN, and Fax numbers that can be entered for an organization and will be used on the 4327A.

Army STRs

STR 654 - One syllabus, two classes, two ADP Codes needed
STR Description: Generated from Issue Call # 7386.

Problem: One syllabus, two classes, two ADP Codes

Setup: One Syllabus = TH-67 Common Core (it technically is a two phase syllabus; Contact and Instruments, then BWS)
Two Class names = CC 11-001 ADP Code 11T001, BWS 11-001, ADP Code 11B002
ADP Code = internal Rucker accounting code used everywhere.

Issue: In talks with Rucker staff I determined we needed two class names for the Common Core (CC) training in order to get the ADP Code to automatically show in places for the student.

Students are placed in a CC class and assigned one syllabus, TH-67 Common Core. They finish the contact/ instruments phase and move on to BWS phase. When this happens Rucker wants to track them with a different ADP code.
Prior to ARTS the students maintained the same class name and on paper (Excel) changed ADP codes. Student Manager is used to track the students in ARTS and this is where the ADP Code is assigned to the class. In CC not all students complete on training day 90 in the TH-67 Comm Core syllabus, some complete early and some get an extra day or so. The completed students move onto another airfield to fly the BWS phase of the syllabus. The SMO’s are not staying on top of this move in ARTS and it is causing problems with scheduling, reports, grading, etc.

Possible fix:
I thought if we could assign two ADP Codes to the same class (only CC classes I would think) and have a mechanism catch either an Cc event completion with a good overall grade (S) or something else, to trigger the second ADP Code, that would do it. This ADP Code thing is a driving force here at Rucker and we adapted to it but this one situation is not working well. Our first attempt, the current way ARTS does it, works for ALL others courses and students, just not the early part of flight school. I need ideas, possibly fixes, etc., to make this work. Pls jump in with possible solutions.

To resolve this, a new integer column was added to the Tracks view of Syllabus Designer named ADP Phase. This allows recording an ADP Phase number for an event within a track. When a class is defined, there is a new capability to enter ADP Phases for a class. In this interface, the numeric ADP phase is mapped to an actual ADP code. The only class management interface in GTIMS that supports this new capability is the one within Schedule Planner (Tools | Manage Classes). The Flight Record (Dash 12) and Scheduler were updated such that when an event is used, the defaulted ADP code is the ADP code that maps the ADP phase for that track event.

**STR 655 - Scheduler - Insert Line Dialog - Issue / Return Times - Data Entry Issues**

**STR Description:** Generated from Issue Call 9522.

**Seen in GTIMS 1.7.10 SP1 (but was in place in ARTS 1.0.7.3 as well).**

**ISSUE:**

ARTS STR 138 (Issue Call 6133) added two new fields: Issue and Down times, to the schedule Insert Line dialog and new field to a table. The fields, in T_SCHED_LINE_FLT_SIM table are ACFT_ISSUE_DATE_TIME_DT and ACFT_RETN_DATE_TIME_DT, are Date/Time. When a user clicks in the field on the dialog he must pick a date and set the time. This is unnecessary since the line is being inserted on a date. Even if the Down time crosses the midnight boundary it is tied to a Sched Line ID so it is tracked.

**CORRECTION:**

Please edit this input dialog to allow the user to put in XXXX and save the value as Date/time in the table.

**ADDENDUM to First ISSUE:**
Originally I asked for these new fields to be auto populated when a user selects a period but this was not implemented.
Ex., Period 1, Issue = 0600, Down time = 1100, during the winter months and changes twice a year around the DST changes. This means the Down and Issue times would have to be in a LU table tied to a period or a setting in System Manager so users can control these settings.

**CORRECTION:**

Add a LU table for Periods to Issue/Down Times OR provide a setting in Schedule Planner or System Manager to allow a user to set Issue/Down times per period. This is a permissions controlled edit. This allows for a user to select the period and then both Issue and Down Times are auto-filled by the LU or settings. This fix would greatly help the user and allow me to use the correct fields in the Schedule template eliminating USERDEF fields I currently use. These USERDEF fields are not conducive to report code as anything can be typed in for the value. NOTE: I do not use these new fields now as they are not being used by the user on the dialog.

To resolve this STR, a new section was added to Schedule Planner Options that allows definition of Issue Periods by organization and platform. In the Scheduler Insert Line dialog, the user can now select a Period that corresponds with the defined Issue Periods. In this case, the Issue Time and Return Time are defaulted to the values defined in Schedule Planner Options. Furthermore, the Scheduler has been updated to allow the period to be modified on a schedule line resulting in Issue Time and Return Time being defaulted for that schedule line.