

Housing Replacement Analysis Project (I-RA) Discovery

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Undergraduate Housing: Current Business Process Timelines

Version 1.2

CONFIDENTIAL





HRA Undergraduate Housing Current Business Process Timelines

MIT DSL



Version	Description	Author	Date
1.1	Initial Document	R. Runnion	2012/06/04
1.2	Updates based on User Review &	R. Runnion	2012/06/22
	Feedback		

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1. **IRA** Current Business Process & Timelines

1.1. [Undergraduate Housing]

1.1.01. Freshman Housing Allocation Process - Overview

Student Housing at MIT is comprised of several different business areas and enterprise systems working in conjunction. MIT Housing itself, governed by the Office of the Dean for Student Life, is comprised of several functional subdivisions with shared responsibility, providing both Graduate and Undergraduate services – among these are Housing Financial Services, Central Housing, Residence Hall Housing Managers, and Conference & Guest Services. Though the Central Housing Office is ultimately responsible for the process, there are several other MIT stakeholders with a direct or indirect effect upon the overall housing business mechanism during the course of an academic year. These stakeholders include (but are not limited to) Admissions, IS&T, Student Financial Services, the Card Services Office, the Security and Emergency Management Office, Institutional Research, the International Students Office, and the Registrar.

The inherent complexity of the cooperative interdepartmental business process the MIT Housing represents is further complicated by the wide array of technologies utilized amongst constituent business areas. Integration of these disparate systems of record is accomplished through means both automatic and manual, with a heavy emphasis on the latter in much of the process. A history of proprietary, functionally-isolated implementations between departments often requires that the same data be entered in two or three different places at a time, or that several interfaces must be monitored and collated to compose a single cohesive report.

This document focuses on several key aspects of Undergraduate Housing at MIT, with an overview of the interwoven business process taking place within an academic cycle. The steps below represent key operations for both incoming freshmen and continuing upperclassmen, anchored by the Central Housing Office, but involving the many different stakeholders and systems referenced above.

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1.1.02. Freshman Housing Allocation Process - Timeline

Step ID#	Step Title	Systems [Stakeholder]	Description
FRA-001	Freshman Application to MIT	MyMIT [Admissions]	Freshman applies for Admission to MIT via custom Online Admissions system
FRA-002	Admissions Record Created	Stargate [Admissions]	Application & Biographical Record created by MyMIT connection to Stargate DB
FRA-003	Feed to MITSIS	Datafeed Engine [IS&T]	Biographical & Application records sent to MITSIS
FRA-004	MITID Assignment	MITiD App [Registrar]	Automatic Matching & Synchronization between MITSIS & MIT ID DB » Ambiguous or problematic records matched by hand
FRA-005	Admissions Decision	Stargate [Admissions]	Decision Entered in Stargate by Committee
FRA-006	Feed to MITSIS – Decision	Datafeed Engine [IS&T]	
FRA-007	MITSIS - Conversion to Student	MITSIS [Registrar]	
FRA-008	Housing Annual Setup & Configuration	MITSIS [HFS]	Housing Financial Services (HFS) Accounting » Enrollment Management Group (MIT Corporation) • Reviews rate proposal for the academic year - process begins in October - rates finalized in March • Reviews all budgetary implications • Votes to Approve/Disapprove/Amend » Billing Rate Setup [Room Rate + House Tax] • Coordinated annual rooming rate setup with SFS • HFS Accounting inputs fall room rates into MITSIS » HFS Accounting updates building/room definitions in MITSIS
FRA-009	Housing SURVEY Open to Freshmen	Qualtrics [IR]	Solicitation via Mass Email » Freshmen surveyed on building & lifestyle preferences
FRA-010	Survey Results Extracted	Qualtrics + Excel / CSV [IR]	MASTER FILE » Excel/CSV download of students + preferences • Contains MIT ID/Kerb ID, preferences, manual assignments, notations
FRA-011	Massaging of Survey Data	Excel [Housing + IR]	Results in unified Survey Master File to be utilized by Lottery Process
FRA-012	Lottery Process Setup {Genjob: SLPHMAWCL}	MITSIS [SFS]	Student Financial Services (SFS) » Executed via MITSIS Oracle Form » Loads Weighted Average rate into Housing Table for specified term
FRA-013	Lottery Process Setup {Genjob: SLPHAFAWC}	MITSIS [HFS]	Housing Financial Services (HFS) Accounting » Loads freshmen into generic housing assignments DORM=FRESH, Room=0

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FRA-014	July Housing Billing Assessment	MITSIS [HFS]	Bills freshmen for weighted average residential fee Calculated according to MITSIS room rate configuration for the specified term Central Housing Office will Notify IR (Jag) by email when complete to initiate the next step
FRA-015	Spaces File Extracted	FileMaker + CSV [Housing]	Spaces File to be utilized by Lottery Process » Establishes Capacity & Gender Ratio per building
FRA-016	Building Lottery Executed	"Lottery Blackbox" [IS&T]	Students matched with a BUILDING (not rooms) by custom algorithm, according to collective evaluation of survey & availability » Input: Survey Master + Spaces files » Output: Building Lottery Results File returned as CSV & evaluated by IR+Housing
FRA-017	Building Lottery Results File Delivered	Excel / CSV + Emacs + PGP + FTP + Datafeed Engine [Housing + IR]	Building Lottery Results file placed in Secure Dropbox (for import into MITSIS) » Contains MIT ID & Building » Encrypted using PGP prior to dropbox placement » Fed back to MITSIS by datafeed
FRA-018	Lottery Results Import to MITSIS {Genjob: SLPHAFIMP}	MITSIS [HFS]	Genjob loads freshmen into Actual DORM, Room=0 » Always done AFTER the July assessment (students are not supposed to see or be billed for real dorm until August)
FRA-019	Lottery Results File Parceled ("The SLICE")	Excel [Housing]	Extract parceled out by building to divide lists of people for sending to House Managers
FRA-020	"Room Assignment Questionnaire" Results Delivered	Microsoft Office [Housing]	Second half of Housing Survey extracted & parceled out by building to divide into distinct lists for determination of actual room assignment within lottery-set residence » Mailmerge to decode CSV, create PDF Listing of Rooming Preferences • more data from original Qualtrics Survey • sorted by Building+Alphabetical » Manually-Separated for distribution » Rooming Preferences Delivered to Housemasters, HouseMgrs & Rooming Chairs
FRA-021	Internal Residence Allocation	Excel + PDF [Housing]	Coordinated process to locate appropriate floor & room for each resident » Rooming Chairs within the building establish optimal assignments floor-to-floor
FRA-022	Actual Room Assignments Returned	Excel [Housing]	Actual room assignments returned to Housing Central by Room Chairs » House Managers are Cc'd (this is how they receive the actual assignments to put in using SISTIM) • And also how they get the final residence list for check-in & CCURE building access cross-reference » Housing Room Assignments entered into SISTIM by 3 rd Week of July

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FRA-023	Actual Room Assignments input to MITSIS	SISTIM + MITSIS [Housing]	Posted in MITSIS after July Assessment date » But before results are posted to STUDENT
FRA-024	Residence Card Access Established (Building Security System)	CCURE via Citrix [Housing + SEMO]	CCURE Card Access System Operated & Maintained by SEMO » Freshman identitities imported from CSGold (Card Office software suite) » Clearance activated as soon as housing assignment becomes active » Upperclassman clearances input by House Manager into CCURE one at a time by MIT ID
FRA-025	Ultimate Results Master File Compiled	FileMaker + CSV [Housing]	Listing File now includes both BUILDING + ROOM NUMBER
FRA-026	Housing Lottery Results Posted Online	Excel + Web [Housing+IS&T]	Results posted on & hosted by MIT Residential Life Website » IR(Jag) gives Jeff a CSV file to post to the Web server » Visible to freshmen as "Freshman Lottery Website" • If Dining Plan required for residence, LINK is on this page to send student to Campus Dining Plan Survey (Odyssey HMS)
FRA-027	Housing Agreements (Licenses) Solicited & Signed	Web + Odyssey HMS [Housing]	 » {MIT RLP webpage} Same results site requests that each resident reads and signs their housing agreement by checking a box right there (pre-2012) » {Odyssey} License Signing File Uploaded for Signature Solicitation (2012)
FRA-028	MIT Directory Address Load Executed {Genjob: SPPPETAL}	MITSIS [Registrar]	Student Directory Data loaded into MITSIS/WebSIS » Address based upon pre-configured parameters, according to the building to which resident is assigned
FRA-029	Student Move-In to Residence Hall	FrontDesk System [Housing]	Residential check-ins and preparatory work separately handled by each House Manager » Often assisted by proprietary electronic front desk management system
FRA-030	Adjustment Period (Formerly Adjustment Lottery)	FileMaker + MITSIS [Housing]	Post-Lottery Moves handled ad hoc by central Housing Office staff » Special move requests handled in the last two weeks before Registration Day » Must be completed & input to MITSIS before September Assessment deadline
FRA-031	MIT Registration Day	MIT OnlineReg System [Registrar]	Student Enrollment Begins » "Registered" Status established in MITSIS
FRA-032	September Housing Billing Assessment	MITSIS [HFS]	Resident Billed at (adjusted, if necessary) rate of actual building & room assignment » Performed by HFS administrative staff via MITSIS Oracle Forms » Billing assessed at a daily rate » Any adjustments must be processed prior to SFS monthly account statement run • Otherwise adjustments would carry over to the following month

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FRA-033	Ad Hoc Housing Moves & Adjustments	MITSIS+SISTIM [HFS / HouseManager / CentralHousing]	Additional moves & adjustments (as necessary) performed by Housing staff throughout the academic year

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1.1.03. <u>Undergraduate Housing Allocation Process - Upperclass & Exceptions</u>

Step ID#	Step Title	Systems [Stakeholder]	Description
UGA-001	Continuing Students: Fall Assignments Rolled to Spring {Genjob: SLRROLL}	MITSIS [HFS]	HFS Staff executes genjob to create future Spring housing assignments based upon current Fall assignments » May be executed for entire undergraduate population or on a per-residence-hall basis » Applies to both freshmen & upperclassmen who are continuing enrollment for the spring term
UGA-002	December Housing Billing Assessment	MITSIS [HFS]	Establishes Undergraduate billing for Spring Semester assignments
UGA-003	Process Undergraduate House Tax {Genjob: SLPRATAX}	MITSIS [HFS]	[House Tax] » Funds dorm government/social programs & dues to inter-dormitory council » Prior to Fall 2012: — charged monthly for Grads — semester-based charge for Udnergrads — handled according to room assignment type » As of 2012, MOVING TO A ONCE-PER-YEAR PROCESS in March • Annual Setup Process Includes House Tax rate setup » SFS bills individuals after HFS performs this tax assessment to generate the charge
UGA-004	Process Summer Housing	FileMaker + MITSIS [CentralHousing + HFS]	Summer Housing System of Record is the Summer Housing FileMaker Database » Maintained by Central Housing Office » Assignments made in conjunction with HFS and House Managers
UGA-005	Undergraduate Billing Assessment for Summer Semester	MITSIS [HFS]	HFS Runs Assessment Post-Commencement, Early June » HFS waits until they have the OK from Central Housing, but not past the SFS billing deadline. » House managers have a deadline depending on the SFS schedule (usually a couple of days before) to input all of the Undergraduate students in MITSIS for the summer. Sumer Billing Performed Manually by SFS » Because there are usually so many changes that it is easier for them to input each charge, instead of fix changes to accounts

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UGA-006	Allocation Lottery: Fall & Spring (December/April)	Excel + Web [Housing]	[Allocation Lottery] Fills known vacancies in MIT Housing each semester » Lottery entrants solicited to submit application via Housing Website • Must apply to be considered (this includes those already on the Waitlist) » Housing Applicants processed in two Groups with differing methodologies: • [Group A] Previous Waitlist candidates, First-Come- First-Served Priority – Sorted in date-applied order – Preferences & Current Residence evaluated • [Group B] All other Lottery Applicants, Random- order Priority » Vacancies may also be generated from Move/Transfer Requests • Additional empty rooms are generated in the process of fulfillment, and supplement initial lottery vacancies » Entrance into the Allocation Lottery is a binding commitment » Students must accept the results & assume residency • However, no allocations are ever made outside of an entrant's three submitted preferences
UGA-007	Internal Fall Residence Allocation for Upperclassmen	Excel + PDF [Housing]	Coordinated process to locate appropriate floor & room for each resident » Rooming Chairs within the building establish optimal assignments floor-to-floor
UGA-008	Process Early Returns	FileMaker [CentralHousing]	[Early Returns (ER) is FileMaker Database] » System of record for tudents participating in Orientation/Pre-Orientation Programs, etc. » Applications submitted in July via Housing Websites • about 500 people generally • You must be on authorized list AND have applied to receive an assignment » Fall assignment is pulled in from Confirmations DB • Everything else datawise is input via the ER application data • Check to see if person is in summer housing; generally these people don't need early return » Meetings with Housing in May regardign expected participation and availability • Decisions in June about actual Housing availability » If students show up without a predetermined Early Return, they will be billed a flat rate • ~\$595 as of 2012

UGA-009	Monthly One-Time Fees Assessment {Genjob: TSRINOTF}	Excel + MITSIS [HFS]	» Excel Spreadsheet Template used by House Managers to Submit lists of charges to HFS » Excel Template generates flat file for use with TSRINOTF genjob » Genjob TSRINOTF Executed Monthly • Ahead of SFS Billing Deadline • Used to generate housing charges and transmit them to SFS
UGA-010	Confirmations Database	FileMaker [CentralHousing]	[Confirmations Database] Ad Hoc reporting for on-campus residential assignments • BUILDING-ONLY – Does not track rooms » Used by central office staff and shared with RLSLP (GRTs, Housemasters) • until students are actually on campus/term has started, they can't be looked up in directory » Records housing confirmation/cancellation status & reason — class year — listing by MITiD/Kerb • Shows whether resident has signed UG housing confirmation form » Changes made concurrently with MITSIS database changes Central Office uses this dataabse to help generate residency list for house managers at end of year/beginning of summer, in prep for following year » Student Room Assignment Chairs in each building use residency lists from this DB to begin fall allocation
UGA-011	Vacancy Reporting	FileMaker [CentralHousing]	[Vacancy Database] Manually-entered list of all known vacancies across residence halls » Counts total vacancies only, not specific rooms » House Manager updates central office periodically (each term) » Central finds out about vacancies only when someone cancels their housing/moves dorms • Reporting done via a special web form (on main Housing site) — Information goes through Confirmations DB — Notification goes to House manager via email

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MANUALL an offer has — studer — email » Waiting Lis • Only about rooms — When Office — Officit to both	at has certain number of days to respond (variable) contains contact info for house manager (nothing about billing rates in this message) t membership can last multiple terms at ~25% of waiting list members are offered student responds, response goes to Central al noitification/confirmation goes back out House Manager & to Student 300 requests per term
[MIT OCH] campus housing	41