

ILLiad Routing Rules & IDS Logic Rules





ILLiad Routing Rules



Which routing rules do we recommend?

- Rule of 5
- Direct Request Rule
- Document Type Rule
- Others?



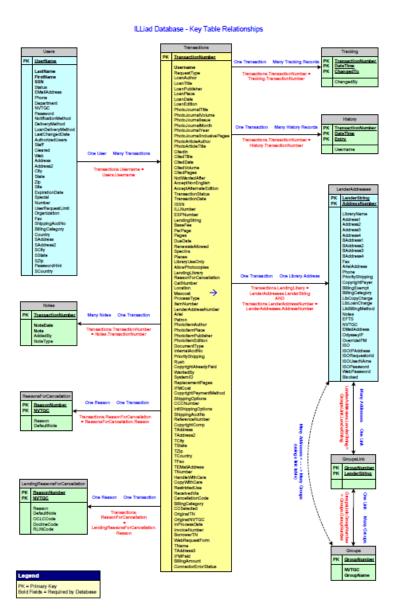
Biology class: We're dissecting a routing rule!

RuleNo	11	
RuleActive	Yes	
ProcessType	Borrowing	
TransactionStatus	Awaiting Request Processing	
MatchString	n(t.LoanDate) = 4 and t.LoanDate = convert(varchar(4),(datepart(year,getdate())))	
NewProcessType	Doc Del	
NewTransactionStatus	Awaiting Acquisitions Processing	
RuleDescription	Routes new releases to Acquisitions for automatic purchase consideration.	

Anatomy of a routing rule

- RuleNo = Each rule waits in line. This sets the order.
- RuleActive = The on/off switch.
- ProcessType = Apply this rule to Borrowing, Lending, or Doc Del.
- TransactionStatus = Apply this rule to a specific queue.
- MatchString = Apply this rule if it matches your criteria.
- NewProcessType = Move the request to Borrowing, Lending, or Doc Del.
- NewTransactionStatus = Move the request to a specific queue.
- RuleDescription = A brief note explaining what this rule does.

IDS PROJECT



Where can I find out more about Tables & Fields?

Table names:

Users
Transactions
Tracking
History
LenderAddresses
Notes
ReasonsForCancellation
LendingReasonsForCancellation

URL for Table (older version):

https://prometheus.atlassys.com/display/illiad85/ILLiad+Database+ Key+Table+Relationships



Tables that you will most likely use:

- Users
- Transactions

To query these tables, you need to append the first letter of the table name to the field that you want to query.

Example:

Users.FirstName would be u.FirstName Transactions.Location would be t.Location



You can't spell MatchString without SQL

- Boolean operators: AND, OR, NOT
- Comparison operators: =, <>, >, <, >=, <=
- Use NULL to test for empty fields
- Can incorporate advanced SQL functions (i.e. "select")
- Never use double-quotes
- All fields have table prefixes (i.e. "u.Status")
- Don't exceed 255 characters



What can a MatchString do?

- MatchStrings can look at data from:
 - Transactions table
 - Users table (Borrowing & Doc Del)
 - LenderAddresses table (Lending)
- Route between Borrowing & Doc Del
- Move to any queue including custom queues



How do you make the statement properly?

Tables: Spread, Bread

Statement:

Spread = 'Peanut Butter' AND Spread = 'Jelly' AND (Bread = 'White' OR Bread = 'Wheat')

Take note:

- Define table each time
- Use single quotes
- Use parenthesis around OR statements
- Capitalize Boolean Operators for readability





Routing rule rules to live by

- Routing rules cannot update an OCLC status
- No daisy chaining
- Order is important
- Requests can get stuck in loops
- Too many rules will slow down ILLiad
- Rube Goldbergs can break ILLiad



Now's your turn! Let's create a routing rule together!

Task: Create a routing rule that takes TNs from Awaiting Lending Request Processing that have a location of "BunniesField" and route them to Awaiting BunniesField Processing.

RuleNo	11	
RuleActive	Yes	
ProcessType	Borrowing	
TransactionStatus	Awaiting Request Processing	
MatchString	en(t.LoanDate) = 4 and t.LoanDate = convert(varchar(4),(datepart(year,getdate())))	
NewProcessType	Doc Del	
NewTransactionStatus	Awaiting Acquisitions Processing	
RuleDescription	Routes new releases to Acquisitions for automatic purchase consideration.	



Routing Rule Template

Rule Number
RuleActive
ProcessType
TransactionStatus
MatchString
NewProcessType
NewTransactionStatus
RuleDescription



Routing Rule Solution

Rule Number	10
RuleActive	Yes
ProcessType	Lending
TransactionStatus	Awaiting Lending Request Processing
MatchString	t.Location LIKE '%BunniesField%'
NewProcessType	Lending
NewTransactionStatus	Awaiting BunniesField Processing
RuleDescription	Routes items within BunniesField collection to special processing queue



Advanced Routing Rules: Copyright

Borrowing - Skipping Copyright Processing

In this example, you want to send all requests that are older than 5 years straight to Awaiting Request Processing, bypassing Awaiting Copyright Clearance.

RuleNo	1
RuleActive	Yes
ProcessType	Borrowing
TransactionStatus	Awaiting Copyright Clearance
MatchString	t.RequestType = 'Article' and len(t.PhotoJournalYear) = 4 and t.PhotoJournalYear < convert(varchar(4),(datepart(year,getdate()) - 5))
NewProcessType	Borrowing
NewTransactionStatus	Awaiting Request Processing
RuleDescription	Bypasses Copyright Clearance for articles older than 5 years

MatchString: Finding TNs that are Request Type = Article and the length of the PhotoJournalYear is equal to 4 characters and the TNs' PhotoJournalYear value is less than the current year minus 5



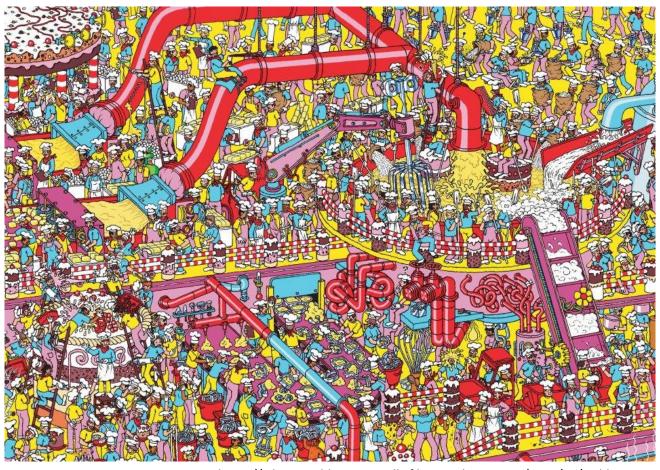
Advanced Routing Rules: GIST

RuleNo	8
RuleActive	Yes
ProcessType	Borrowing
TransactionStatus	Awaiting Request Processing
MatchString	(select 1 FROM GISTWeb gw WHERE gw.TransactionNumber = t.TransactionNumber AND PurchaseRecommendation='Yes') = 1 AND u.Status='Faculty' AND (u.Department='biology' OR u.Department='educa'
NewProcessType	Doc Del
NewTransactionStatus	Needs Faculty Rep Review
RuleDescription	Routing rule sending purchase requests from specific departments to queue for rep review (overflow)

(select 1 FROM GISTWeb gw WHERE gw.TransactionNumber = t.TransactionNumber AND PurchaseRecommendation='Yes') = 1 AND u.Status='Faculty' AND (u.Department='biology' OR u.Department='education' OR u.department='foreign languages')



Where's Waldo, errr... Where's the error?



https://whereswaldoemotionally.files.wordpress.com/2013/09/waldo81.jpg



Rule Number	10
RuleActive	Yes
ProcessType	Lending
TransactionStatus	Awaiting Lending Request Processing
MatchString	t.Location LIKE '%BunniesField'
NewProcessType	Lending
NewTransactionStatus	Awaiting BunniesField Processing
RuleDescription	Routes items within BunniesField collection to special processing queue



Rule Number	10
RuleActive	No
ProcessType	Lending
TransactionStatus	Awaiting Lending Request Processing
MatchString	t.Location LIKE '%BunniesField'
NewProcessType	Lending
NewTransactionStatus	Awaiting BunniesField Processing
RuleDescription	Routes items within BunniesField collection to special processing queue



Rule Number	10
RuleActive	No
ProcessType	Lending
TransactionStatus	Awaiting Lending Request Processing
MatchString	u.TransactionStatus = 'Exhausted' AND t.TransactionStatus = 'Undergraduate'
NewProcessType	Lending
NewTransactionStatus	Awaiting BunniesField Processing
RuleDescription	Routes items within BunniesField collection to special processing queue



Rule Number	10
RuleActive	No
ProcessType	Lending
TransactionStatus	Awaiting Lending Request Processing
MatchString	<pre>u.TransactionStatus = 'Exhausted' OR t.TransactionStatus = 'Undergraduate' OR t.RequestType = Article OR</pre>
NewProcessType	Lending
NewTransactionStatus	Awaiting BunniesField Processing
RuleDescription	Routes items within BunniesField collection to special processing queue



Now it's your turn!

Create a Routing Rule to share out to the group



Routing Rule Template

Rule Number
RuleActive
ProcessType
TransactionStatus
MatchString
NewProcessType
NewTransactionStatus
RuleDescription



10 minute break



IDS Logic Rules



In Transit to Pickup Location

Skip In Transit to Pickup Location for all Loan Requests

This rule will route all loan requests directly from In DD Stacks Searching to Awaiting Doc Del Customer Contact, skipping the In Transit to Pickup Location status.

RuleActive	Yes
ProcessType	Borrowing
TransactionStatus	In Transit to Pickup Location
MatchString	t.RequestType = 'Loan'
NewProcessType	Borrowing
NewTransactionStatus	Awaiting Customer Contact
RuleDescription	Moves all loan requests straight to Awaiting Customer Contact (bypassing In Transit to Pickup Location) for immediate notification.

OR...do this through IDS Logic, with a timer!



LogicRule: In Transit to Pickup Location

- ILL

UpdatedMinutes: 2



How to Build Your Own Logic Rule

LogicRule_1: Enabled: "0" RuleName: "BorrowingUserAccountSuspended" PreventReruns: "1" NVTGCList: - "ILL" ProcessTypeList: - "Borrowing" RequestTypeList: - "Loan" TransactionStatusList: - "Checked Out to Customer" FlagList: "" Query: "" # This is anything that was updated within X minutes UpdatedMinutes: "" # This is anything created within X minutes CreatedMinutes: "" # This is anything that was marked as due within X minutes DueMinutes: "" # This is anything overdue OverDueMinutes: "30240" RouteTo: "" RouteToBorrowing: "" RouteToDocDel: "" AddFlag: "Overdue: 14+ Days" RemoveFlag: "" EmailTemplate: "Borrowing User Account Suspended" EmailSubject: "Borrowing User Account Suspended" AddNote: "" SetFields: - ItemInfo1: "" - ItemInfo2: "" - ItemInfo3: "" - ItemInfo4: ""

- ItemInfo5: ""





OverDueMinutes: "30240"

LogicRule: The Search Part

```
LogicRule 1:
 Enabled: "0"
 RuleName: "BorrowingUserAccountSuspended"
 PreventReruns: "1"
 NVTGCList:
 - "ILL"
 ProcessTypeList:
 - "Borrowing"
 RequestTypeList:
 - "Loan"
 TransactionStatusList:
 - "Checked Out to Customer"
 FlagList: ""
 Query: ""
# This is anything that was updated within X minutes
 UpdatedMinutes: ""
# This is anything created within X minutes
 CreatedMinutes: ""
# This is anything that was marked as due within X minutes
 DueMinutes: ""
# This is anything overdue
```

*Anything with "List" can have multiple values

(example: RequestTypeList could have both Borrowing and Lending)



LogicRule: The Action Part

RouteTo: ""

RouteToBorrowing: ""
RouteToDocDel: ""

AddFlag: "Overdue: 14+ Days"

RemoveFlag: ""

EmailTemplate: "Borrowing User Account Suspended" EmailSubject: "Borrowing User Account Suspended"

AddNote: ""
SetFields:

- ItemInfo1: ""

- ItemInfo2: ""

- ItemInfo3: ""

- ItemInfo4: ""

- ItemInfo5: ""

#The valid actions for below are "Cancel", "ILLAnswer – Unfilled", "Cond", "ILLAnswer

– Conditional", "Shipped"

OCLCUpdate: ""

*Queues do not need to exist in advance

*Flags and email templates needs to exist in advance

*SetFields can be any field within the Transactions table



How to start: Ask yourself these questions:

- What is the process type?
- What is the request type?
- What is the transaction status?
- Does the TN have any flags attached?
- Is there a specific query you want to run to identify the TN?
- Is this relevant: Created minutes, Updated minutes, Due minutes, Overdue minutes?

Then...

What do you want to do to the TN?

- Do you want to route it somewhere?
- Do you want to change the process type?
- Do you want to add a flag?
- Do you want to remove a flag?
- Do you want to leave a note?
- Do you want to send an email?
- Do you want to add additional information to the TN?





Things to consider:

- It is recommended that these run on a test queue first!
- LogicRules automatically leave notes behind
- You can daisy chain Logic Rules
- You can prevent them from re-running on a TN
- Logic Rules run in order
- You will still need to contact me to set these up at your site



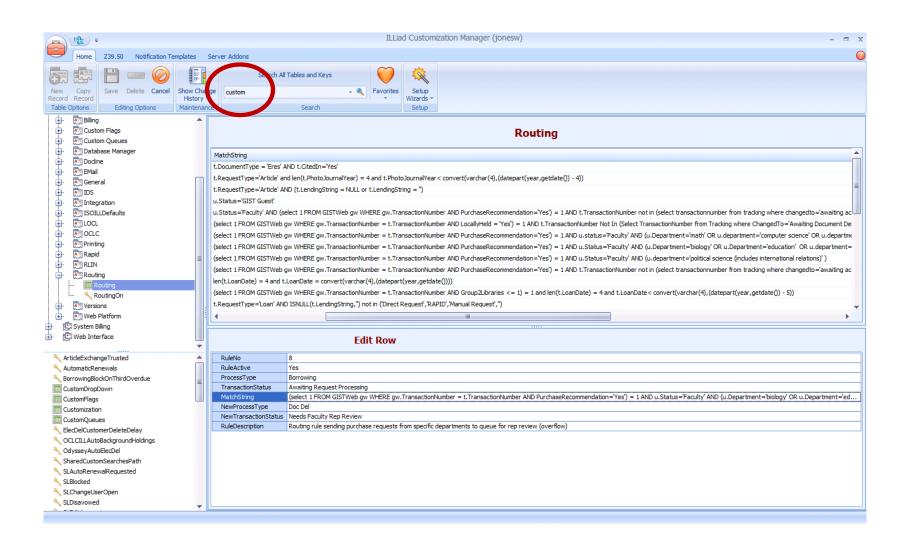
Now it's your turn!

Create a LogicRule to share out to the group

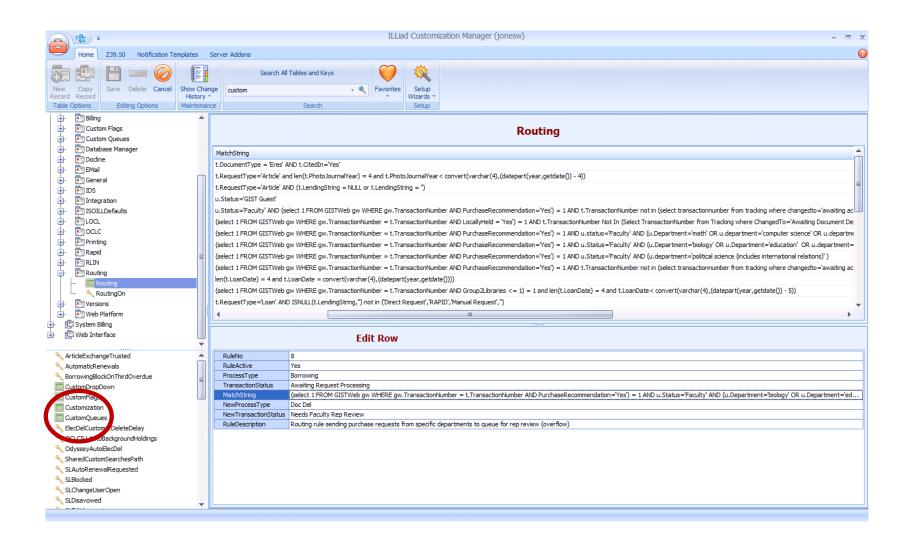


Bonus! How to Create a Test Queue

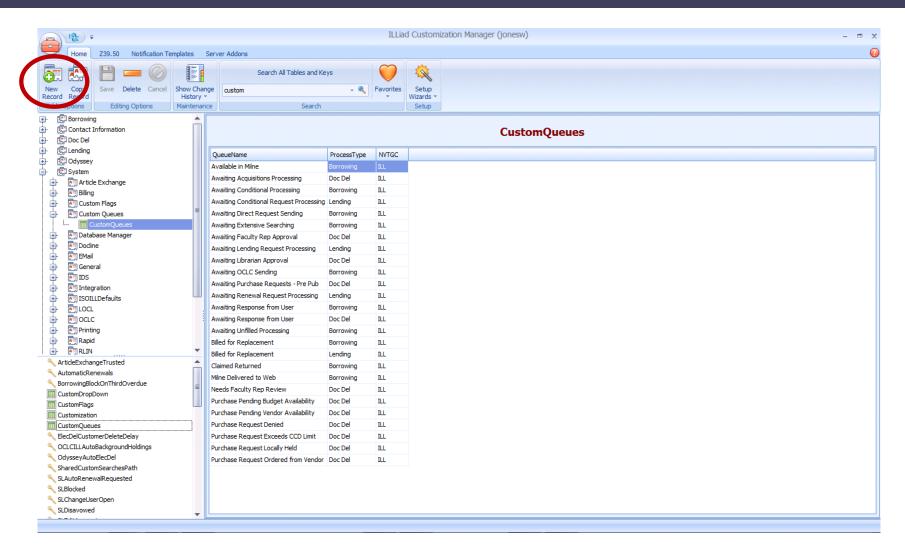




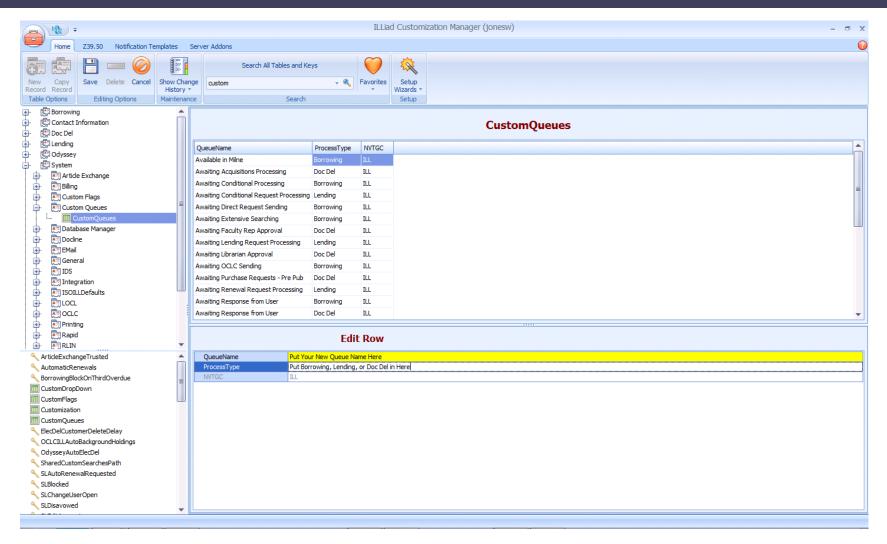














Soon there will be a form online where you can submit your LogicRule ideas.

For now, email me (jonesw@geneseo.edu) or call me (585-245-5172) and let me know about your ideas!



Questions?





Thank you!

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