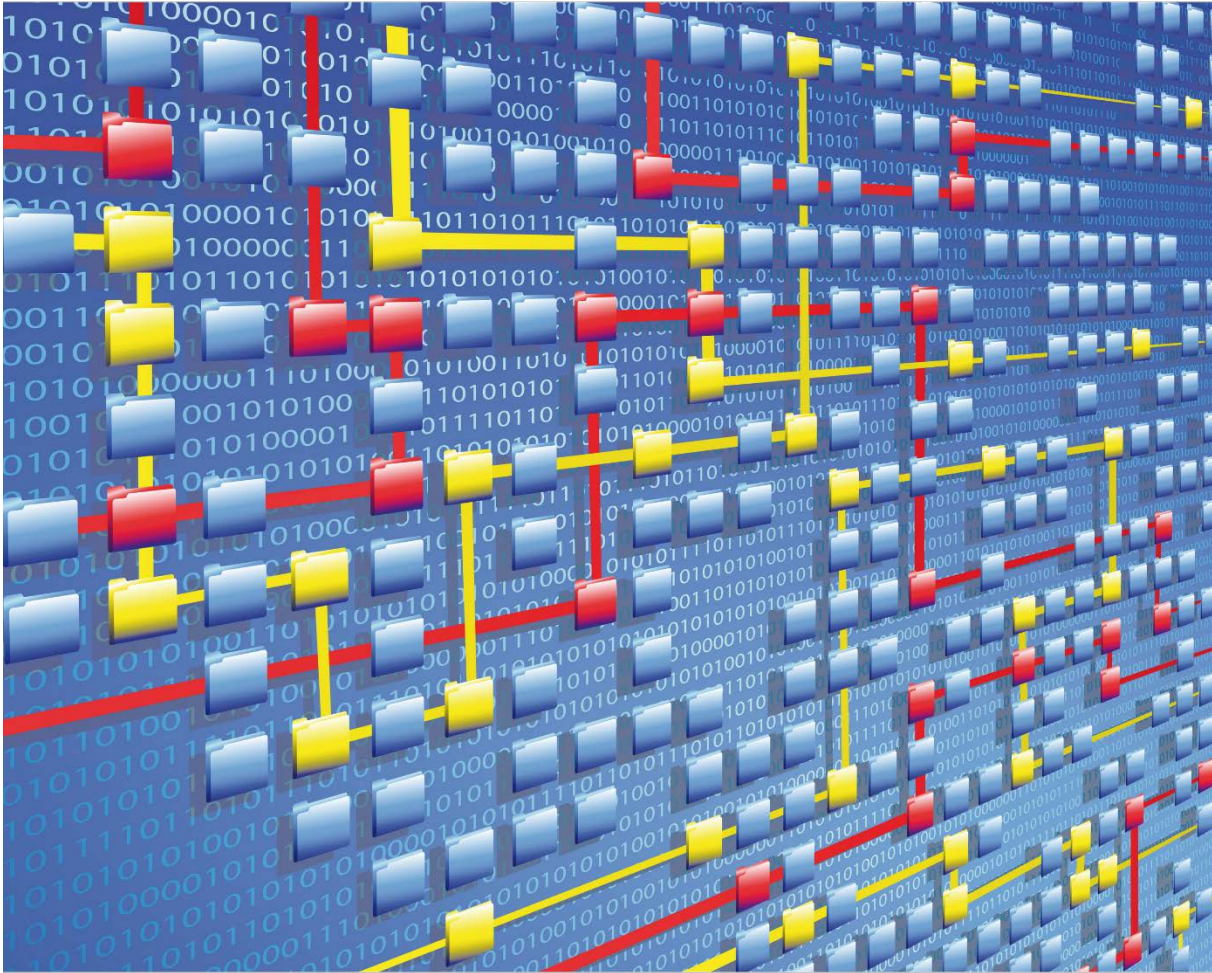


IEEE Task Force on



Process Mining

XES CERTIFICATION FOR
PM4PY 0.1: LIBRARY

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TOOL

Tool

NAME

Pm4py Library

VENDOR

Fraunhofer FIT process mining group and RWTH Aachen University

VERSION

0.1 - <https://github.com/pm4py/pm4py-source/releases/tag/0.1>

REQUESTED CERTIFICATION LEVELS

Import

A-D, X

Export

A-D, X

META

Meta

AUTHORS

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DATE

19/11/2018

HISTORY

CHANGES

AUTHOR(S)	DATE	DESCRIPTION
Madhavi Shankar	06/11/2018	Initial recordings for the certification
Madhavi Shankar	19/11/2018	Fixed the import issue and revised as per the initial comments from Task Force team

IMPORT

Import

REAL-LIFE LOGS

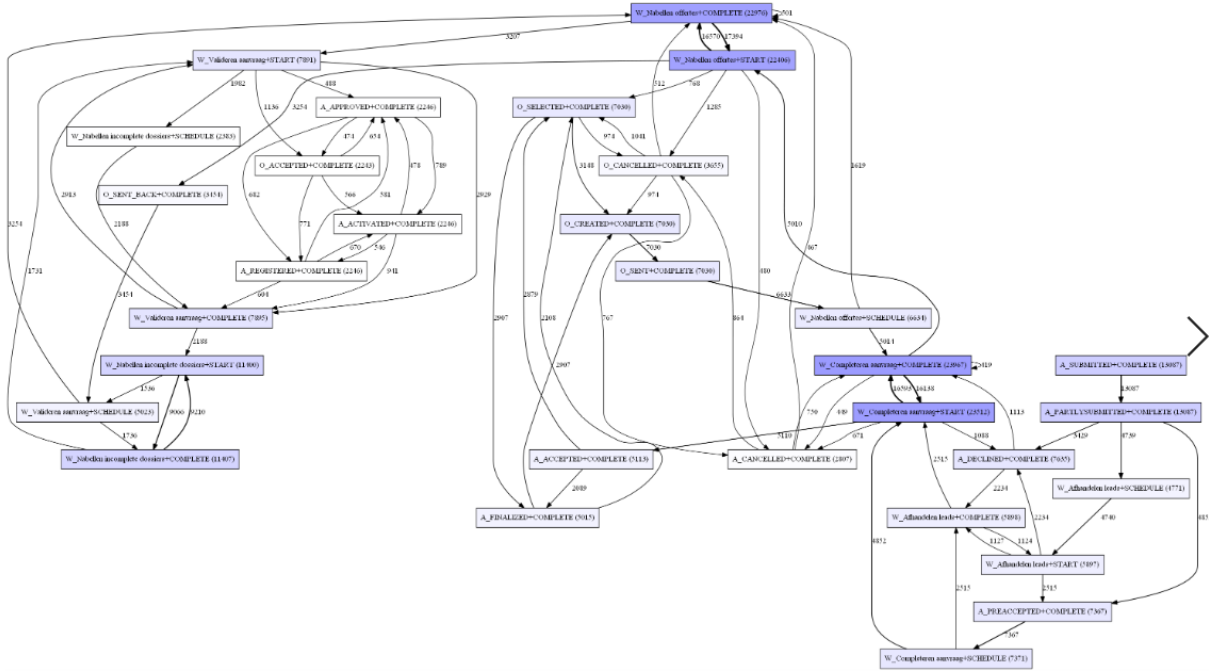
SANITIZED BPIC LOGS

NAME	TRACES	EVENTS	SIZE IN KB
BPIC12	13,087	262,200	72,363
BPIC13_closed_problems	1,487	6,660	4,090
BPIC13_incidents	7,554	65,533	38,627
BPIC13_open_problems	819	2,351	1,370
BPIC15_1	1,199	52,217	40,261
BPIC15_2	832	44,354	33,616
BPIC15_3	1,409	59,681	45,673
BPIC15_4	1,053	47,293	36,131
BPIC15_5	1,156	59,083	44,961
BPIC17 - Offer log	42,995	193,849	107,557
BPIC17	31,509	1,202,267	565,373

BPIC12

```
log loaded
Number of traces - 13087
Number of events - 262200
Classifiers {'Activity classifier': ['concept:name', 'lifecycle:transition']}
exporting log xescert_exportlogs\exp_BPIC12.xes
exported log xescert_exportlogs\exp_BPIC12.xes
Reimporting log file just exported - xescert_exportlogs\exp_BPIC12.xes
log loaded xescert_exportlogs\exp_BPIC12.xes
Number of traces - 13087
Number of events - 262200
Classifiers {'Activity classifier': ['concept:name', 'lifecycle:transition']}
```

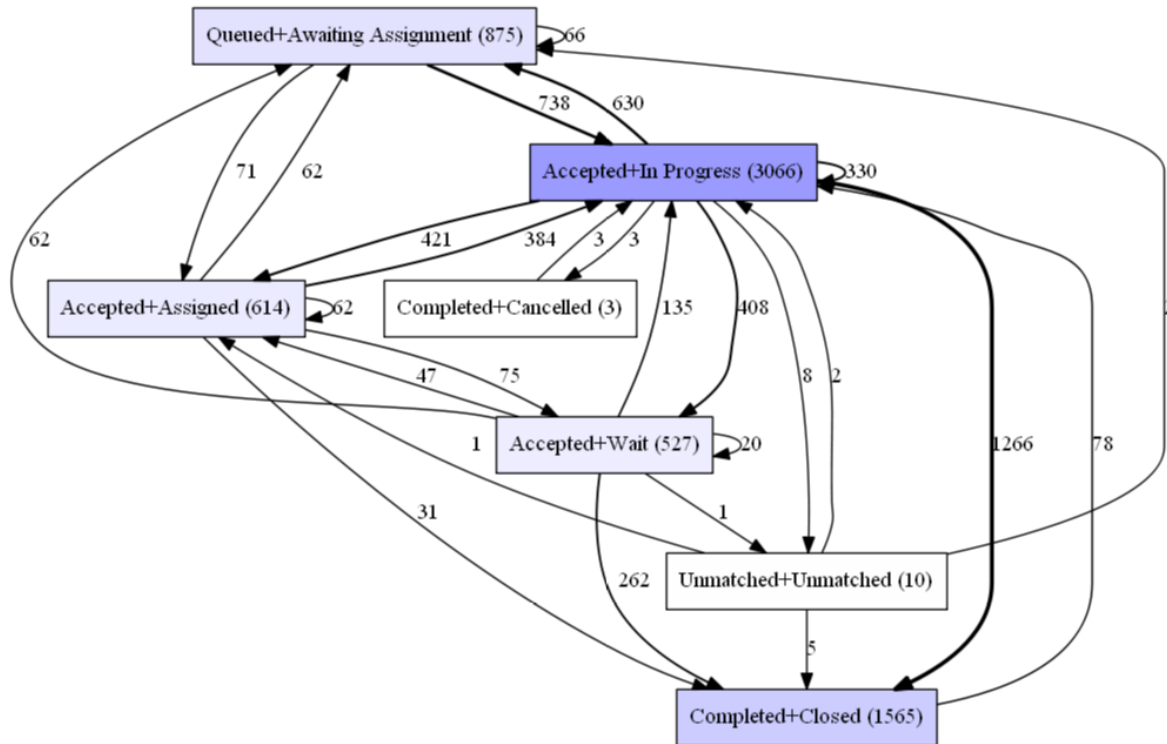
IMPORT



BPIC13_closed_problems

```
log loaded
Number of traces - 1487
Number of events - 6660
Classifiers {'Activity classifier': ['concept:name', 'lifecycle:transition'], 'Resource classifier': ['org:resource']}
exporting log xescert_exportlogs\exp_BPIC13_closed_problems.xes
exported log xescert_exportlogs\exp_BPIC13_closed_problems.xes
Reimporting log file just exported - xescert_exportlogs\exp_BPIC13_closed_problems.xes
log loaded xescert_exportlogs\exp_BPIC13_closed_problems.xes
Number of traces - 1487
Number of events - 6660
Classifiers {'Activity classifier': ['concept:name', 'lifecycle:transition'], 'Resource classifier': ['org:resource']}
```

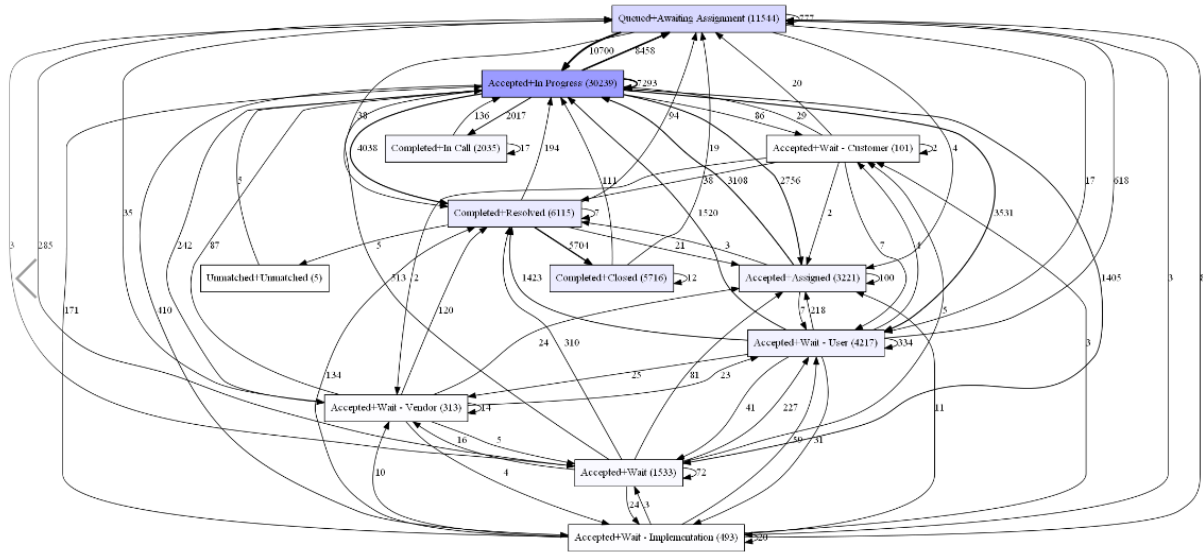
IMPORT



BPIC13_incidents

```
log loaded
Number of traces - 7554
Number of events - 65533
Classifiers {'Activity classifier': ['concept:name', 'lifecycle:transition'], 'Resource classifier': ['org:resource']}
exporting log xescert_exportlogs\exp_BPIC13_incidents.xes
exported log xescert_exportlogs\exp_BPIC13_incidents.xes
Reimporting log file just exported - xescert_exportlogs\exp_BPIC13_incidents.xes
log loaded xescert_exportlogs\exp_BPIC13_incidents.xes
Number of traces - 7554
Number of events - 65533
Classifiers {'Activity classifier': ['concept:name', 'lifecycle:transition'], 'Resource classifier': ['org:resource']}
```

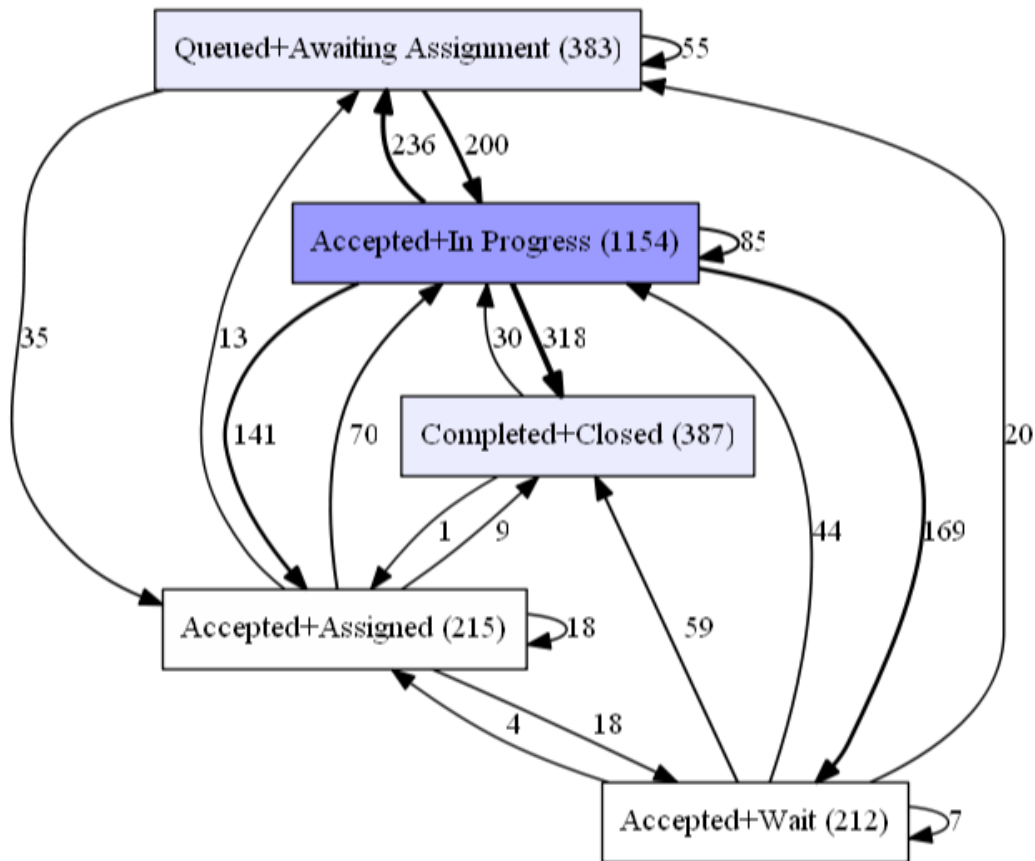
IMPORT



BPIC13_open_problems

```
log loaded
Number of traces - 819
Number of events - 2351
Classifiers {'Activity classifier': ['concept:name', 'lifecycle:transition'], 'Resource classifier': ['org:resource']}
exporting log xescert_exportlogs\exp_BPIC13_open_problems.xes
exported log xescert_exportlogs\exp_BPIC13_open_problems.xes
Reimporting log file just exported - xescert_exportlogs\exp_BPIC13_open_problems.xes
log loaded xescert_exportlogs\exp_BPIC13_open_problems.xes
Number of traces - 819
Number of events - 2351
Classifiers {'Activity classifier': ['concept:name', 'lifecycle:transition'], 'Resource classifier': ['org:resource']}
```

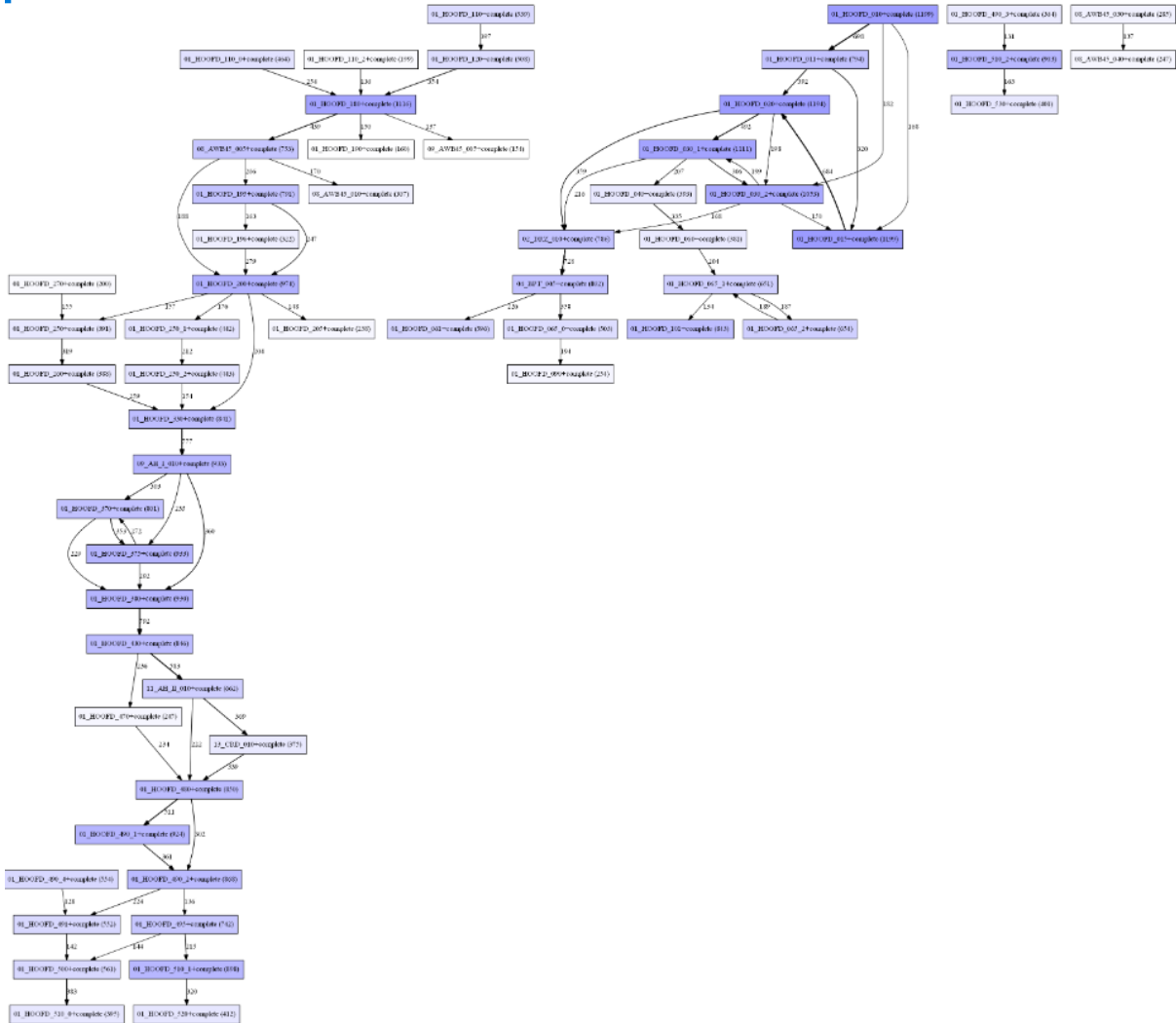

IMPORT



BPIC15_1

```
log loaded
Number of traces - 1199
Number of events - 52217
Classifiers [{"Activity classifier": [{"conceptname": "lifecycle:transition"}, {"Activity classifier activityNameNL": [{"activityNameNL": "lifecycle:transition"}, {"Activity classifier activityNameEN": [{"activityNameEN",
"lifecycle:transition"}, {"Resource": [{"org:resource"}]}]}]}]
exporting log xesocert_exportlogs/exp_BPIC15_1.xes
exported log xesocert_exportlogs/exp_BPIC15_1.xes
Reimporting log file just exported - xesocert_exportlogs/exp_BPIC15_1.xes
log loaded xesocert_exportlogs/exp_BPIC15_1.xes
Number of traces - 1199
Number of events - 52217
Classifiers [{"Activity classifier": [{"conceptname": "lifecycle:transition"}, {"Activity classifier activityNameNL": [{"activityNameNL": "lifecycle:transition"}, {"Activity classifier activityNameEN": [{"activityNameEN",
"lifecycle:transition"}, {"Resource": [{"org:resource"}]}]}]}]
```

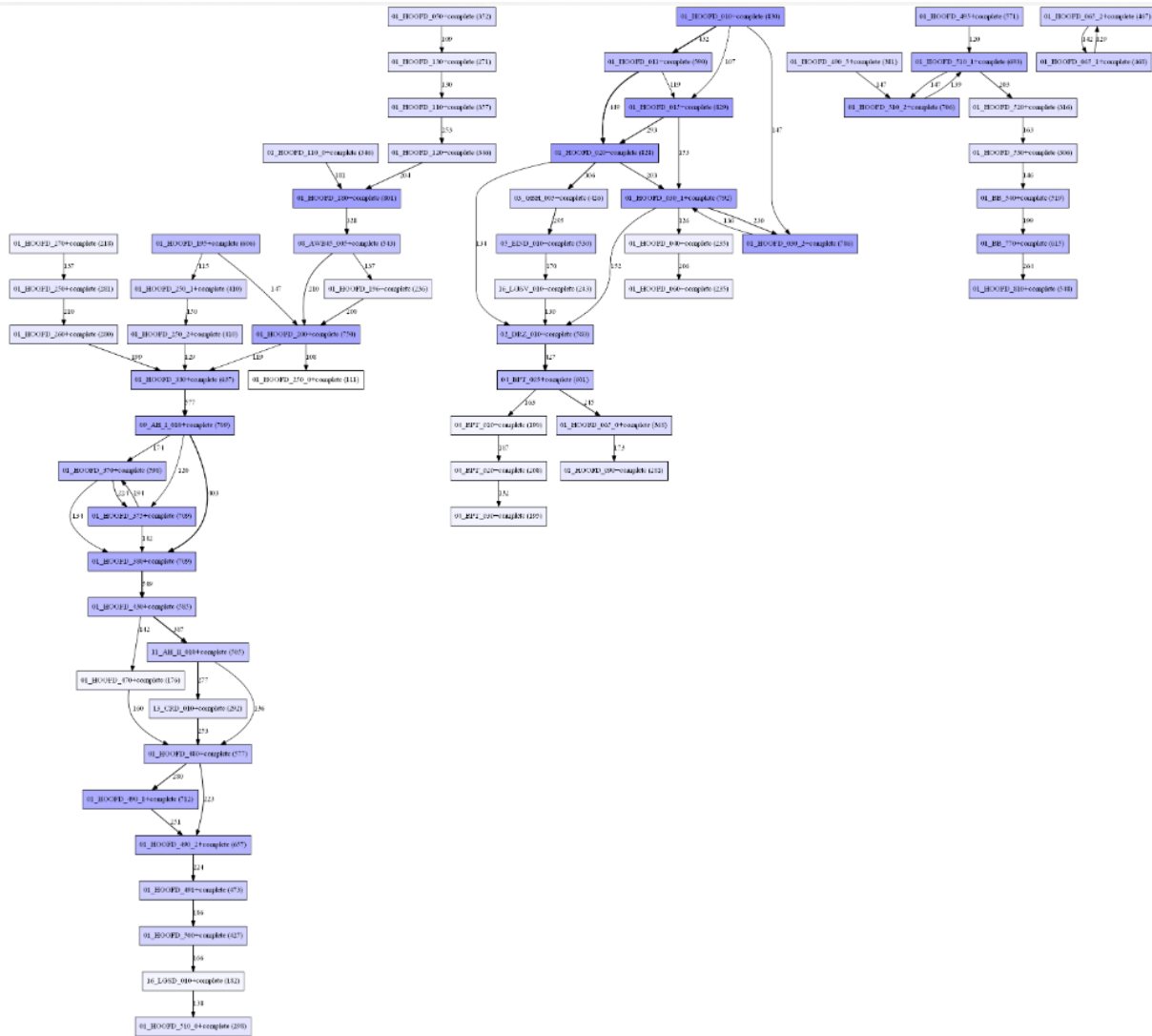
IMPORT



BPIC15_2

```
log loaded
Number of traces - 532
Number of events - 44354
Classifiers {'Activity classifier': ['conceptname', 'lifecycle:transition'], 'Activity classifier activityNameNL': ['activityNameNL', 'lifecycle:transition'], 'Activity classifier activityNameEM': ['activityNameEM', 'lifecycle:transition'], 'Resource': ['org:resource']}
exporting log resource_exportslogs/exp_BPIC15_2.xml
exported log resource_exportslogs/exp_BPIC15_2.xml
Reporting log file just exported - resource_exportslogs/exp_BPIC15_2.xml
log loaded resource_exportslogs/exp_BPIC15_2.xml
Number of traces - 532
Number of events - 44354
Classifiers {'Activity classifier': ['conceptname', 'lifecycle:transition'], 'Activity classifier activityNameNL': ['activityNameNL', 'lifecycle:transition'], 'Activity classifier activityNameEM': ['activityNameEM', 'lifecycle:transition'], 'Resource': ['org:resource']}
```

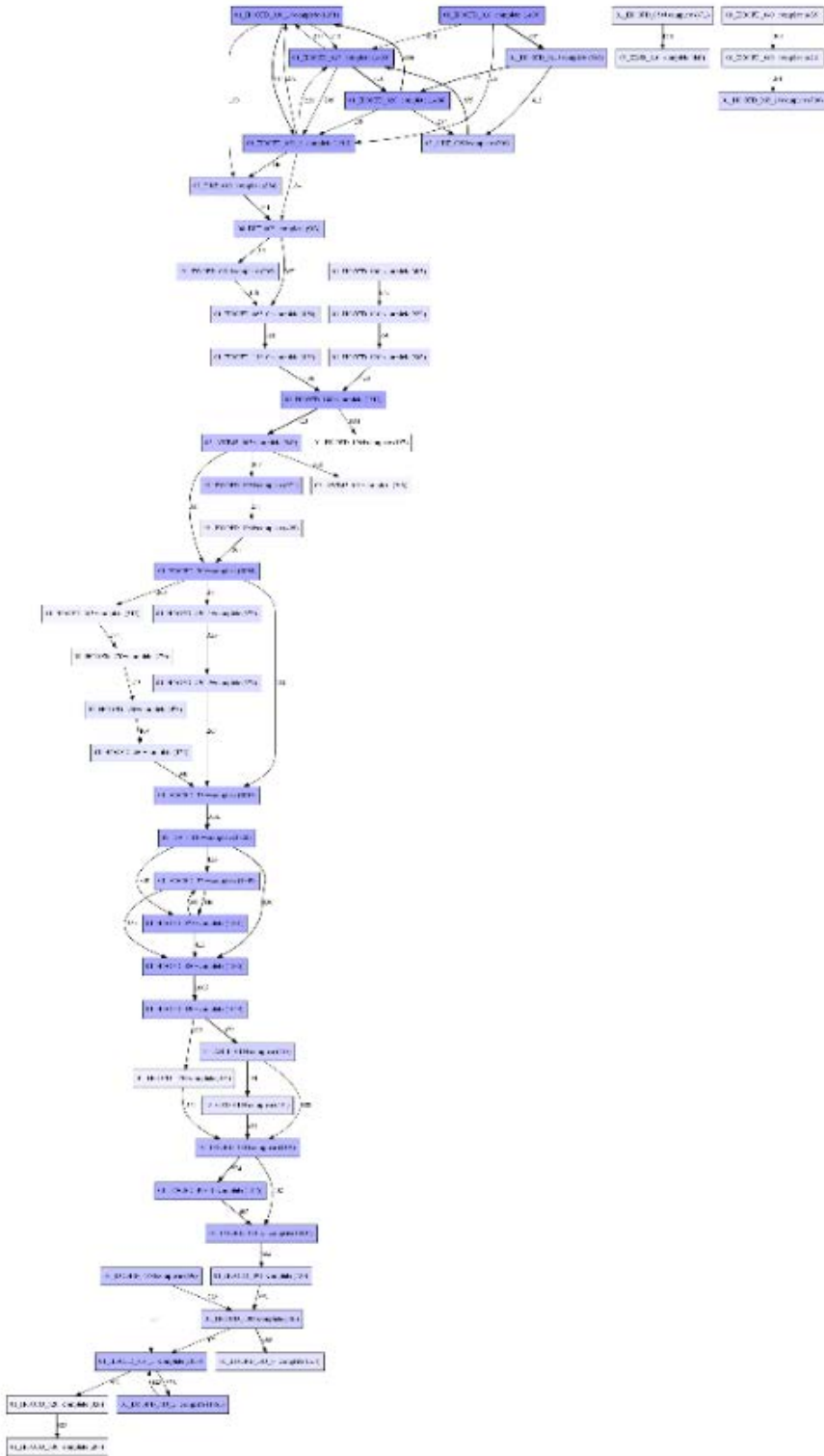
IMPORT



BPIC15_3

```
log loaded
Number of traces - 1409
Number of events - 59481
Classifiers ('Activity classifier': ['concept:name', 'lifecycle:transition'], 'Activity classifier activityNameNL': ['activityNameNL', 'lifecycle:transition'], 'Activity classifier activityNameEN': ['activityNameEN', 'lifecycle:transition'], 'Resource': ['orig:resource'])
exporting log xesert_exportlogs/exp_BPIC15_3.xes
exported log xesert_exportlogs/exp_BPIC15_3.xes
Reimporting log file just exported - xesert_exportlogs/exp_BPIC15_3.xes
log loaded xesert_exportlogs/exp_BPIC15_3.xes
Number of traces - 1409
Number of events - 59481
Classifiers ('Activity classifier': ['concept:name', 'lifecycle:transition'], 'Activity classifier activityNameNL': ['activityNameNL', 'lifecycle:transition'], 'Activity classifier activityNameEN': ['activityNameEN', 'lifecycle:transition'], 'Resource': ['orig:resource'])
```

IMPORT

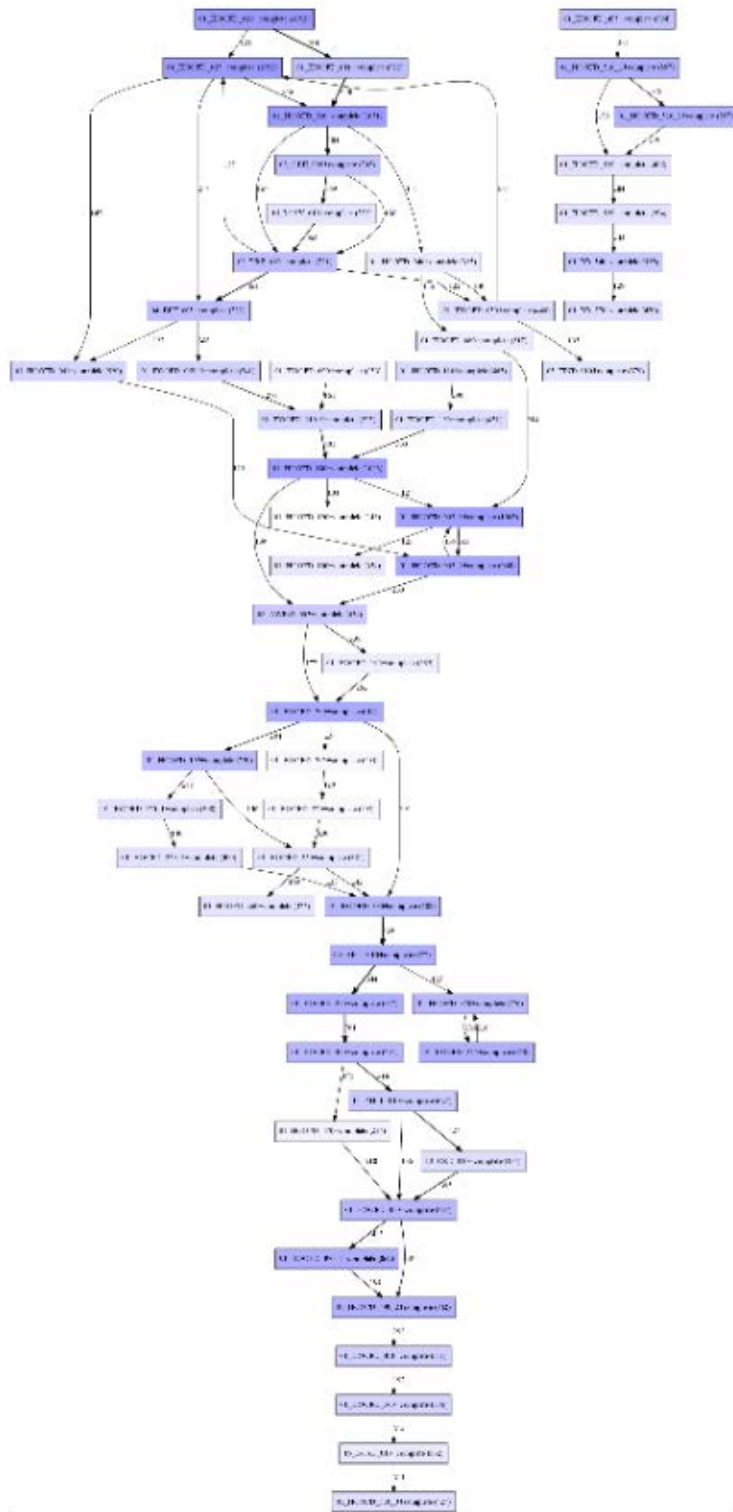


IMPORT

BPIC15_4

```
log loaded
Number of traces - 1083
Number of events - 47293
Classifiers {'Activity classifier': ['concept:name', 'lifecycle:transition'], 'Activity classifier activityNameNL': ['activityNameNL', 'lifecycle:transition'], 'Activity classifier activityNameEN': ['activityNameEN', 'lifecycle:transition'], 'Resource': ['org:resource']}
exporting log resource_exports\exp_BPIC15_4.xes
exported log resource_exports\exp_BPIC15_4.xes
Reimporting log file just exported - resource_exports\exp_BPIC15_4.xes
log loaded resource_exports\exp_BPIC15_4.xes
Number of traces - 1083
Number of events - 47293
Classifiers {'Activity classifier': ['concept:name', 'lifecycle:transition'], 'Activity classifier activityNameNL': ['activityNameNL', 'lifecycle:transition'], 'Activity classifier activityNameEN': ['activityNameEN', 'lifecycle:transition'], 'Resource': ['org:resource']}
```

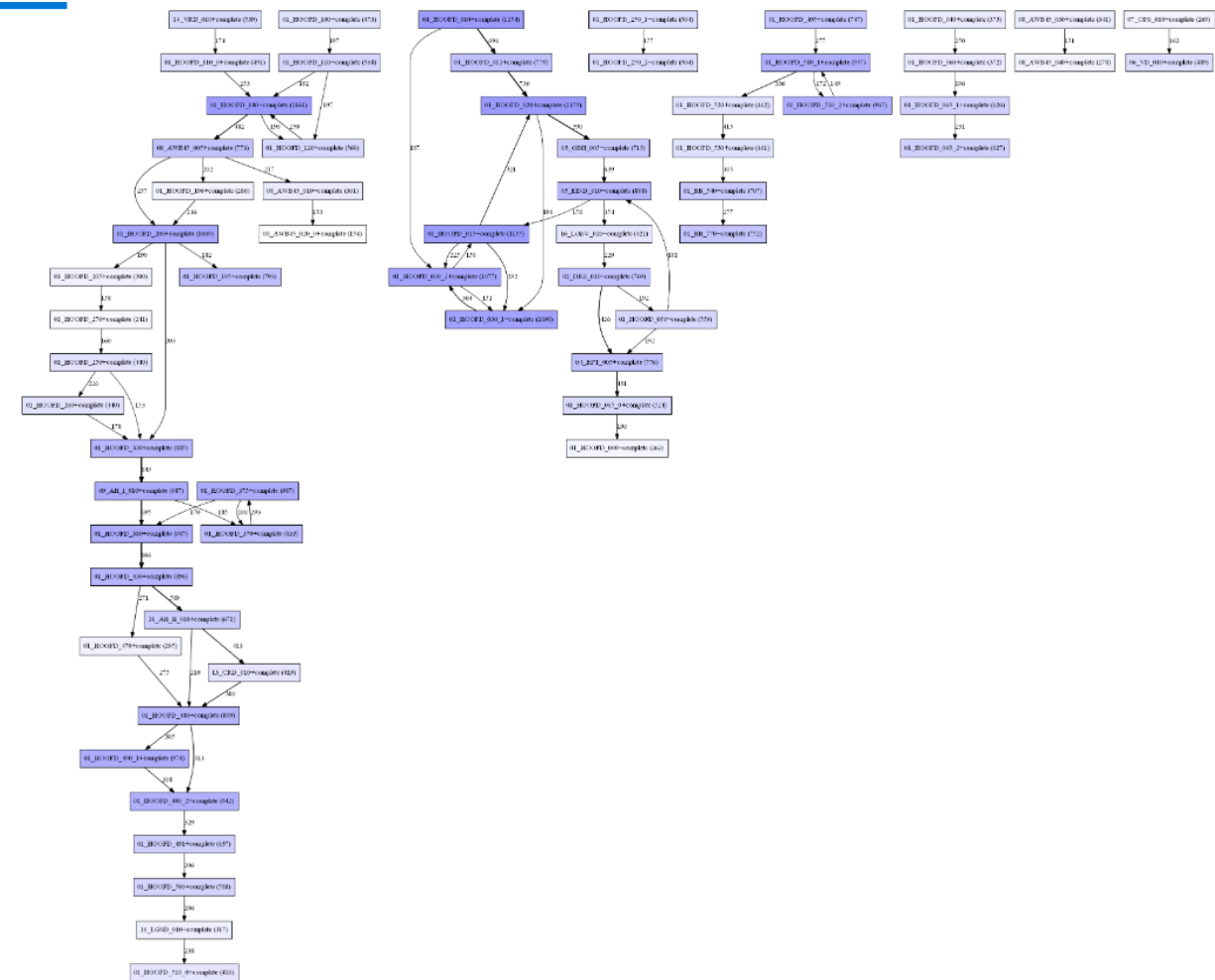
IMPORT



IMPORT

BPIC15_5

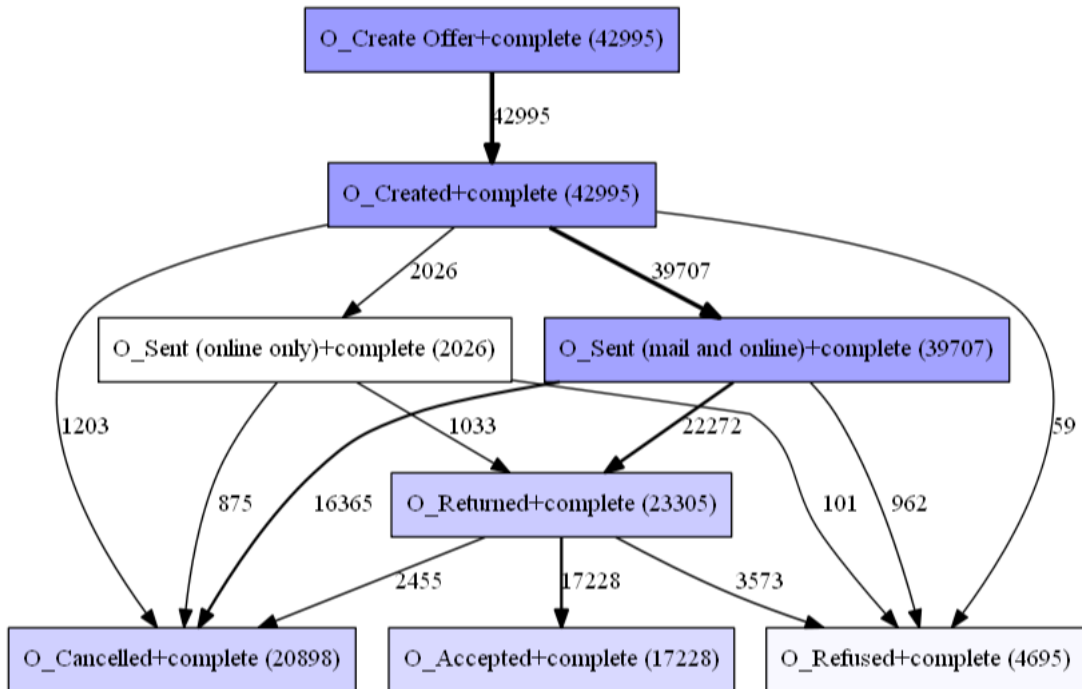
```
log loaded
Number of traces - 1156
Number of events - 59083
Classifiers [{"Activity classifier": {"conceptname": "lifecycle:transition"}, "Activity classifier activityNameNL": {"activityNameNL": "lifecycle:transition"}, "Activity classifier activityNameEN": {"activityNameEN": "lifecycle:transition"}, "Resource": {"org:resource"}}]
exporting log resource_exportslogs/exp_BPIC15_5.xml
exporting log resource_exportslogs/exp_BPIC15_5.xml
Reimporting log file just exported - resource_exportslogs/exp_BPIC15_5.xml
Log loaded resource_exportslogs/exp_BPIC15_5.xml
Number of traces - 1156
Number of events - 59083
Classifiers [{"Activity classifier": {"conceptname": "lifecycle:transition"}, "Activity classifier activityNameNL": {"activityNameNL": "lifecycle:transition"}, "Activity classifier activityNameEN": {"activityNameEN": "lifecycle:transition"}, "Resource": {"org:resource"}}]
```



IMPORT

BPIC17 – Offer log

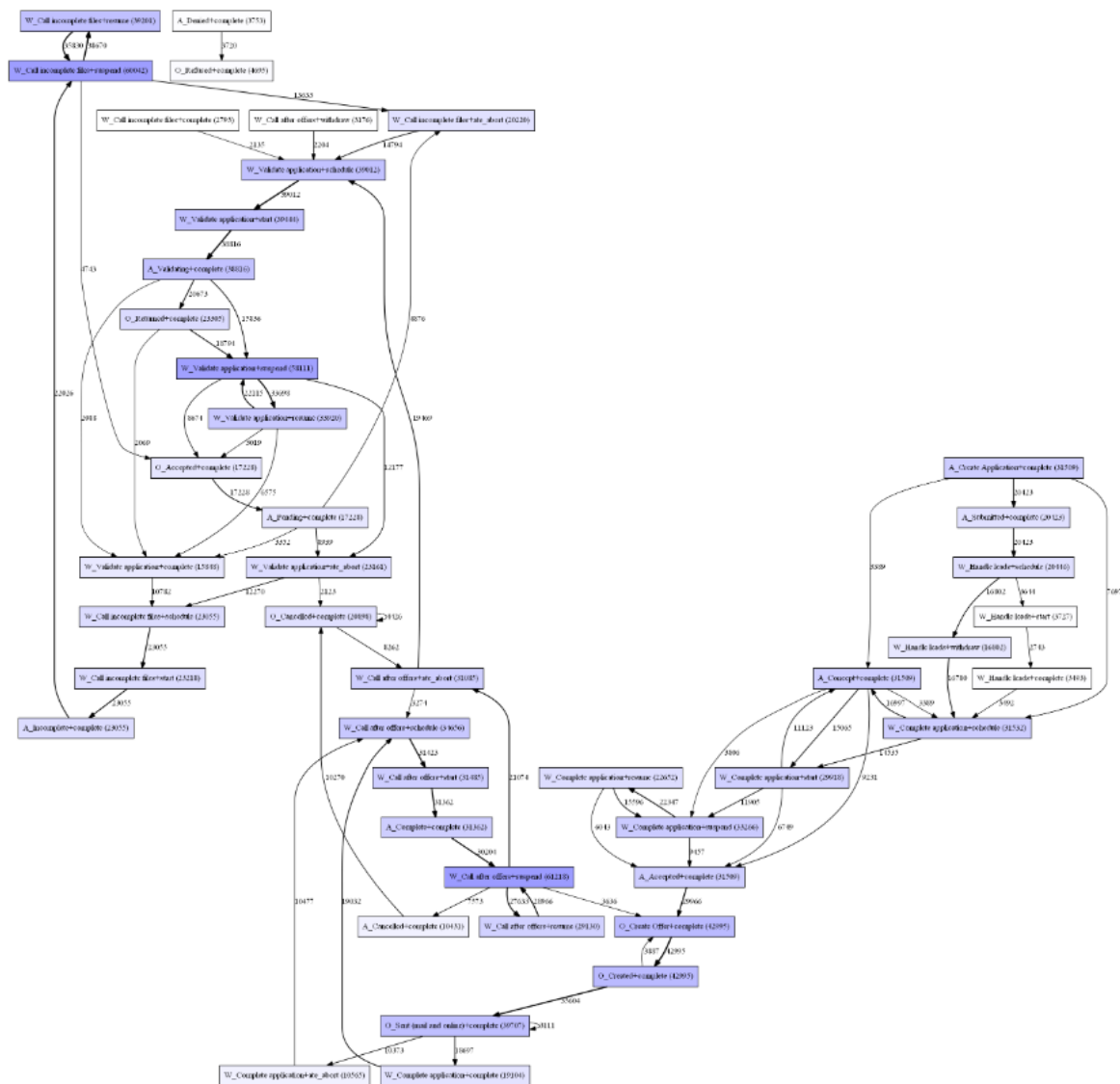
```
log loaded
Number of traces - 42995
Number of events - 193849
Classifiers {'Event Name': ['concept:name'], 'MXML Legacy Classifier': ['concept:name', 'lifecycle:transition'], 'Resource': ['org:resource']}
exporting log xescert_exportlogs\exp_BPIC17 - Offer log.xes
exported log xescert_exportlogs\exp_BPIC17 - Offer log.xes
Reimporting log file just exported - xescert_exportlogs\exp_BPIC17 - Offer log.xes
log loaded xescert_exportlogs\exp_BPIC17 - Offer log.xes
Number of traces - 42995
Number of events - 193849
Classifiers {'Event Name': ['concept:name'], 'MXML Legacy Classifier': ['concept:name', 'lifecycle:transition'], 'Resource': ['org:resource']}
```



IMPORT

BPIC17

```
log loaded
Number of traces - 31509
Number of events - 1202267
Classifiers {'Event Name': ['concept:name'], 'MXML Legacy Classifier': ['concept:name', 'lifecycle:transition'], 'Resource': ['org:resource']}
exporting log xescert_exportlogs\exp_BPIC17.xes
exported log xescert_exportlogs\exp_BPIC17.xes
Reimporting log file just exported - xescert_exportlogs\exp_BPIC17.xes
log loaded xescert_exportlogs\exp_BPIC17.xes
Number of traces - 31509
Number of events - 1202267
Classifiers {'Event Name': ['concept:name'], 'MXML Legacy Classifier': ['concept:name', 'lifecycle:transition'], 'Resource': ['org:resource']}
```



IMPORT

ARTIFICIAL LOGS

FILTERED REPAIR EXAMPLE LOGS

NAME	LEVEL	EVENT ATTRIBUTE KEYS (IF BOLD THEN GLOBAL)
LevelA1	A1	concept:name
LevelA2	A2	Classifier (concept:name AND lifecycle:transition)
LevelB1	B1	concept:name, lifecycle:transition, time:timestamp
LevelB2	B2	Classifier (concept:name AND lifecycle:transition), time:timestamp
LevelC1	C1	concept:name, org:resource
LevelC2	C2	Classifier (concept:name AND lifecycle:transition), org:resource
LevelD1	D1	concept:name, concept:instance, lifecycle:transition, org:resource, org:group, org:role, time:timestamp
LevelD2	D2	Classifier (concept:name AND lifecycle:transition), concept:instance, org:resource, org:group, org:role, time:timestamp
FlagX1	X1	defectFixed, defectType, Key 1, Key 2, Key 3, Key 4, Key 6, phoneType, numberRepairs, {0,1,2} 2Sa!! +1 <x> , ITEMS:41, #1, o.1.1
FlagX2	X2	defectFixed, defectType, Classifier (Key 1 AND Key 6),

IMPORT

Key 2,
Key 3,
Key 4,
 phoneType,
 numberRepairs,
{0,1,2} 2Sa!! +1 <x>,
 ITEMS:41, #1, o.1.1

ATTRIBUTE TYPES AND VALUES

KEYS	TYPE	VALUES
concept:instance Key 2	string	instance 1 instance 2 instance 3 instance 4
concept:name (A1 and C1 logs)	string	Analyze Defect+complete Analyze Defect+start Archive Repair+complete Inform User+complete Register+complete Repair (Complex)+complete Repair (Complex)+start Repair (Simple)+complete Repair (Simple)+start Restart Repair+complete Test Repair+complete Test Repair+start
concept:name (other logs) Key 1	string	Analyze Defect Archive Repair Inform User Register Repair (Simple) Repair (Complex) Restart Repair Test Repair
lifecycle:transition Key 6	string	start complete
org:group {0,1,2} 2Sa!! +1 <x>	string	Group - Group 1, 3, and 5 Group 2 and 4
org:resource Key 3	string	SolverC1 SolverC2 SolverC3 SolverS1 SolverS2 SolverS3

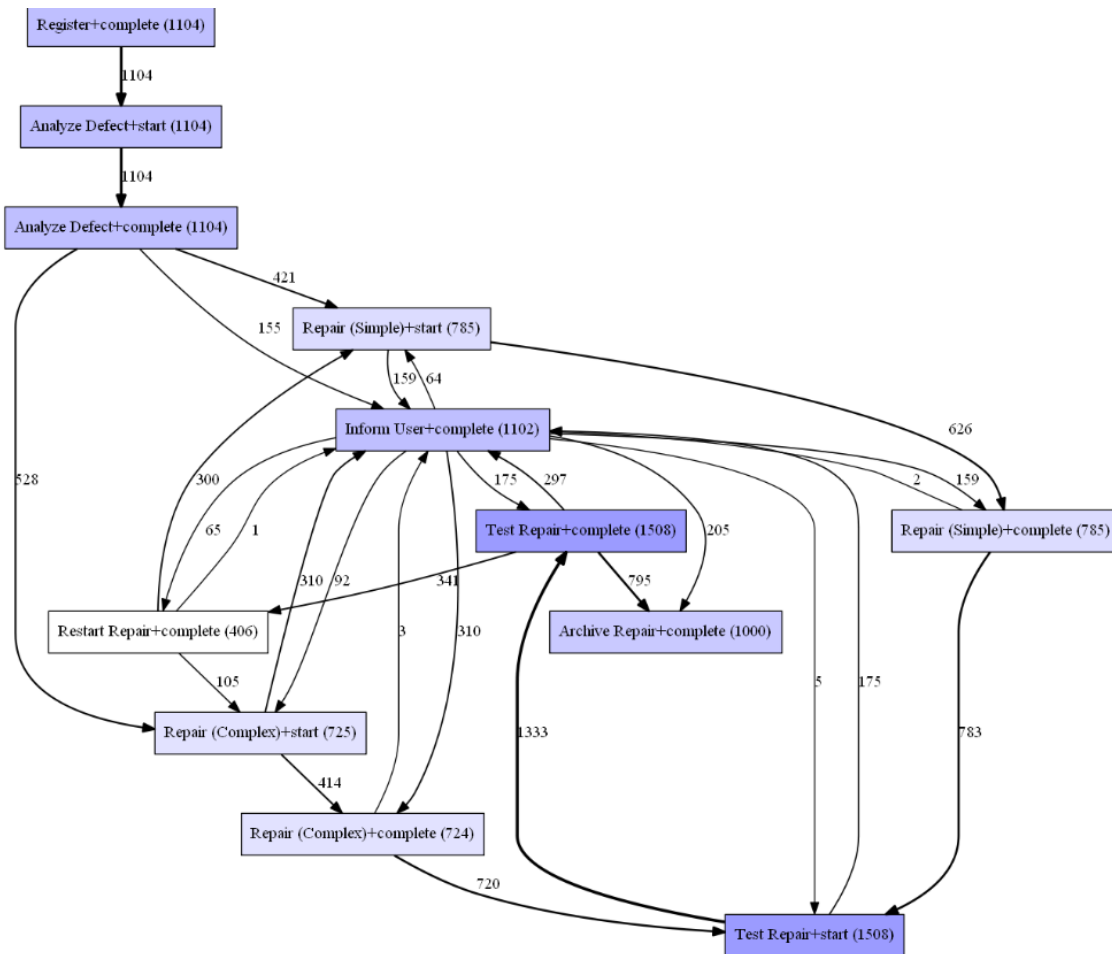
IMPORT

		System Tester1 Tester2 Tester3 Tester4 Tester5 Tester6
org:role ITEMS:41, #1, 0.1.1	string	Role 1, 2, and 3 Role 10 Role 9
time:timestamp Key 4	date	<i>Like</i> 1970-01-02T12:23:56.720+01:00
defectFixed	boolean	true false
defectType	int	1 10 2 3 4 5 6 7 8 9
numberRepairs	int	0 1 2 3
phoneType	String	T1 T2 T3

Level A1

```
log loaded
Number of traces - 1104
Number of events - 11855
Classifiers {}
exporting log xescert_exportlogs\exp_LevelA1.xes
exported log xescert_exportlogs\exp_LevelA1.xes
Reimporting log file just exported - xescert_exportlogs\exp_LevelA1.xes
log loaded xescert_exportlogs\exp_LevelA1.xes
Number of traces - 1104
Number of events - 11855
Classifiers {}
```

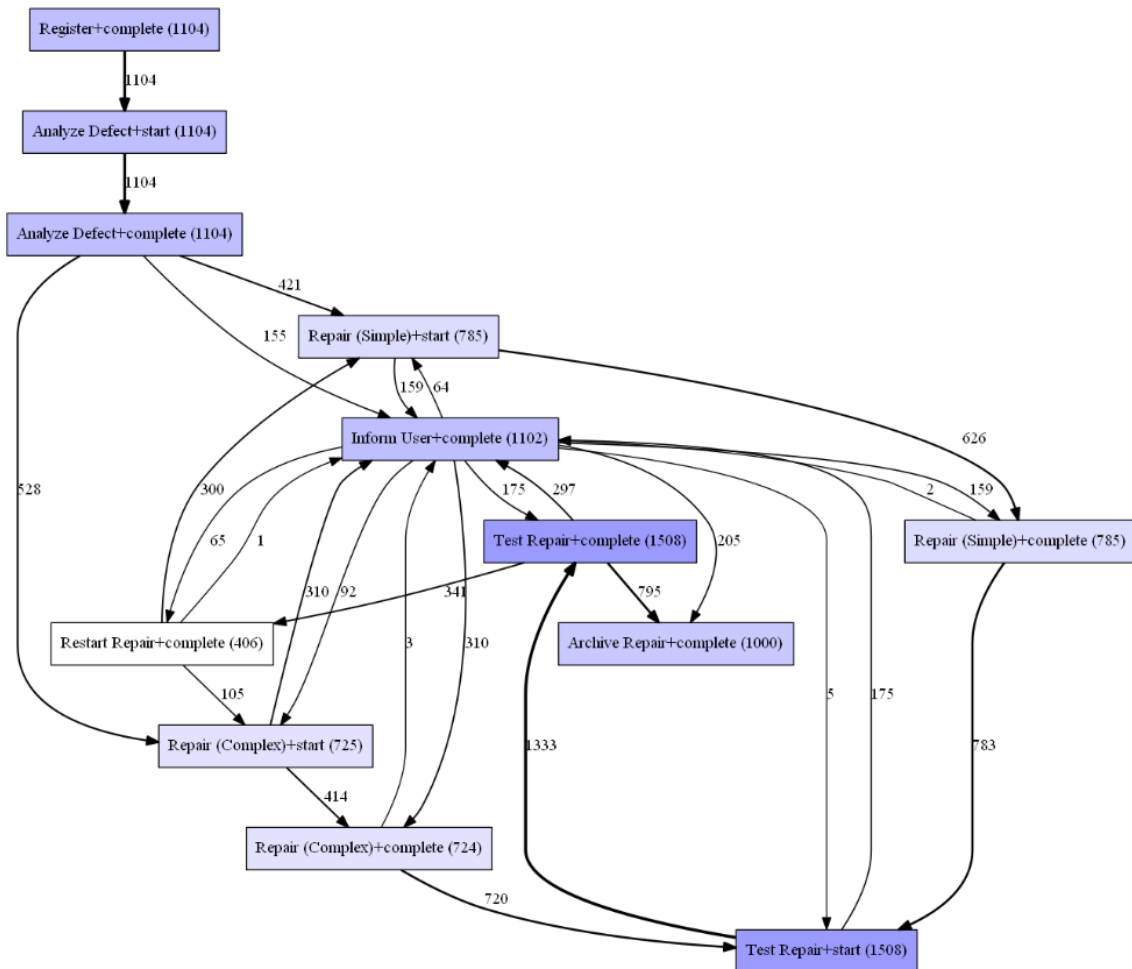
IMPORT



Level A2

```
log loaded
Number of traces - 1104
Number of events - 11855
Classifiers {'(Name AND Transition)': ['concept:name', 'lifecycle:transition']}
exporting log xescert_exportlogs\exp_LevelA2.xes
exported log xescert_exportlogs\exp_LevelA2.xes
['(Name AND Transition)']
@@classifier
Reimporting log file just exported - xescert_exportlogs\exp_LevelA2.xes
log loaded xescert_exportlogs\exp_LevelA2.xes
Number of traces - 1104
Number of events - 11855
Classifiers {'(Name AND Transition)': ['concept:name', 'lifecycle:transition']}
```

IMPORT

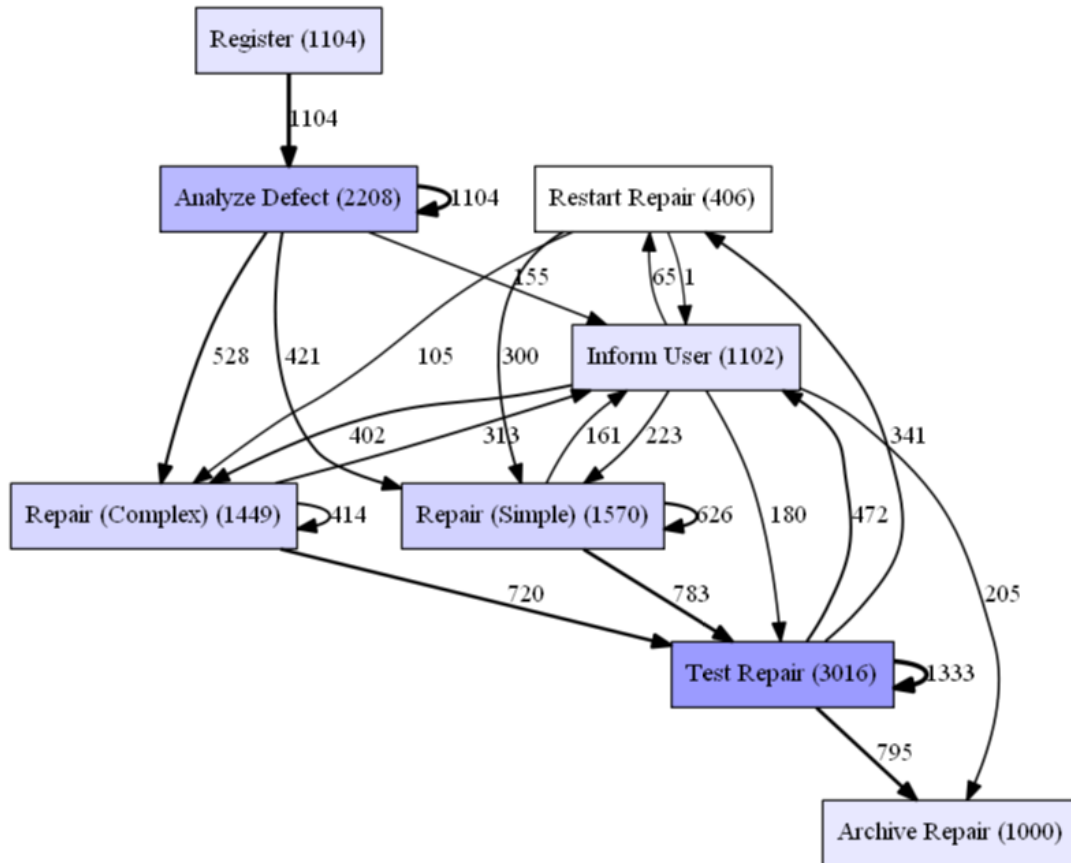


Level B1

```

log loaded
Number of traces - 1104
Number of events - 11855
Classifiers {}
exporting log xescert_exportlogs\exp_LevelB1.xes
exported log xescert_exportlogs\exp_LevelB1.xes
Reimporting log file just exported - xescert_exportlogs\exp_LevelB1.xes
log loaded xescert_exportlogs\exp_LevelB1.xes
Number of traces - 1104
Number of events - 11855
Classifiers {}
  
```

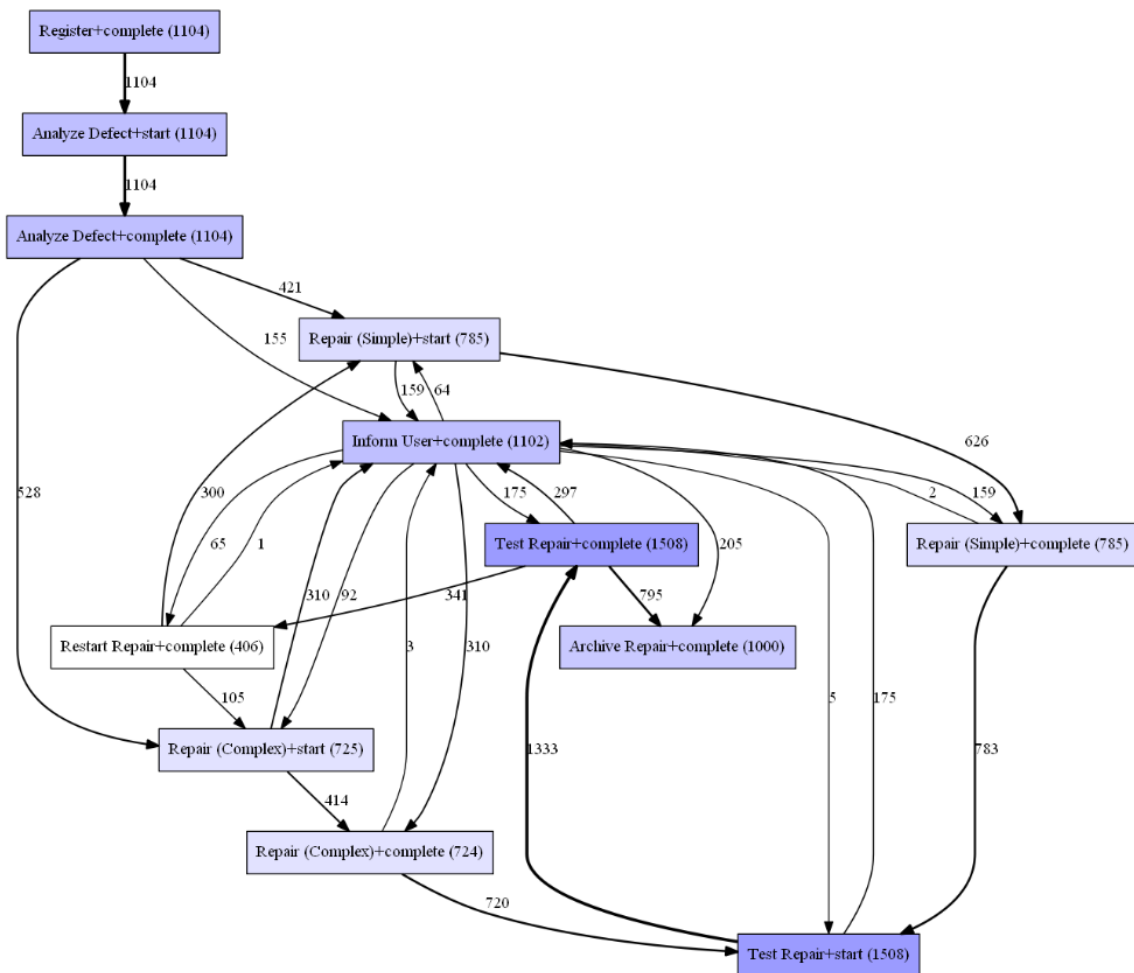
IMPORT



Level B2

```
log loaded
Number of traces - 1104
Number of events - 11855
Classifiers {'(Name AND Transition)': ['concept:name', 'lifecycle:transition']}
exporting log xescert_exportlogs\exp_LevelB2.xes
exported log xescert_exportlogs\exp_LevelB2.xes
['(Name AND Transition)']
@@classifier
Reimporting log file just exported - xescert_exportlogs\exp_LevelB2.xes
log loaded xescert_exportlogs\exp_LevelB2.xes
Number of traces - 1104
Number of events - 11855
Classifiers {'(Name AND Transition)': ['concept:name', 'lifecycle:transition']}
```

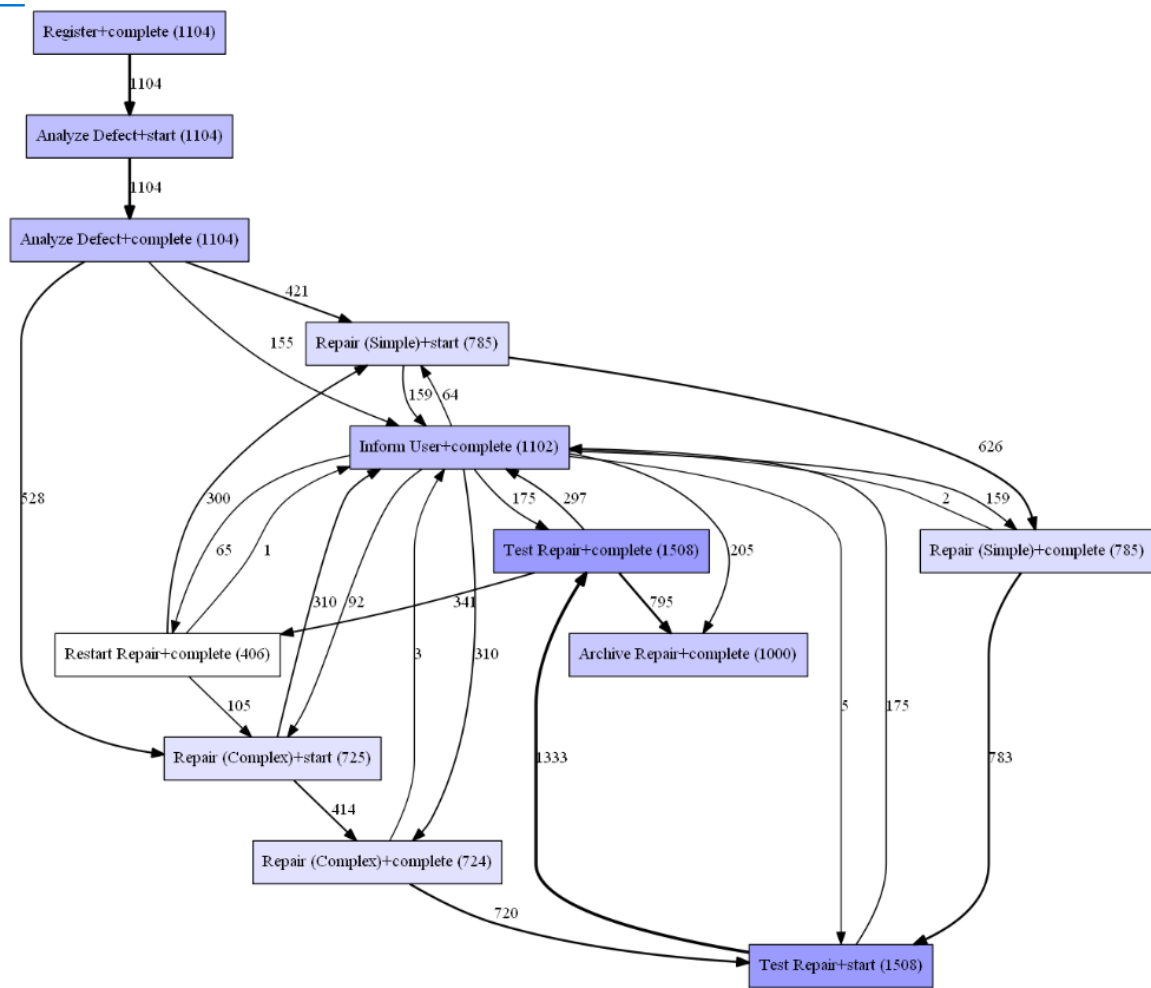
IMPORT



Level C1

```
log loaded
Number of traces - 1104
Number of events - 11855
Classifiers {}
exporting log xescert_exportlogs\exp_LevelC1.xes
exported log xescert_exportlogs\exp_LevelC1.xes
Reimporting log file just exported - xescert_exportlogs\exp_LevelC1.xes
log loaded xescert_exportlogs\exp_LevelC1.xes
Number of traces - 1104
Number of events - 11855
Classifiers {}
```


IMPORT

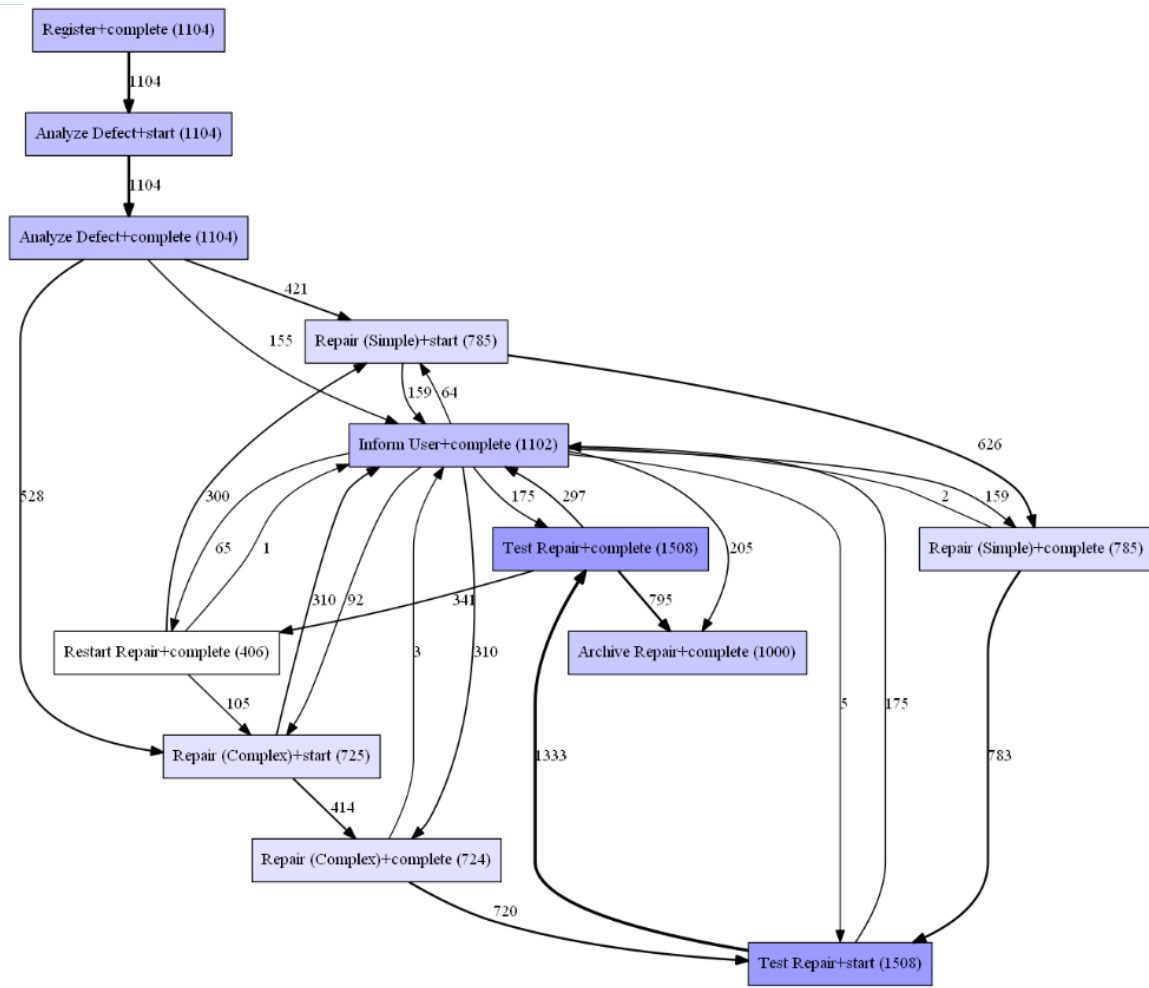


Level C2

```

log loaded
Number of traces - 1104
Number of events - 11855
Classifiers {'(Name AND Transition)': ['concept:name', 'lifecycle:transition']}
exporting log xescert_exportlogs\exp_LevelC2.xes
exported log xescert_exportlogs\exp_LevelC2.xes
['(Name AND Transition)']
@@classifier
Reimporting log file just exported - xescert_exportlogs\exp_LevelC2.xes
log loaded xescert_exportlogs\exp_LevelC2.xes
Number of traces - 1104
Number of events - 11855
Classifiers {'(Name AND Transition)': ['concept:name', 'lifecycle:transition']}
  
```

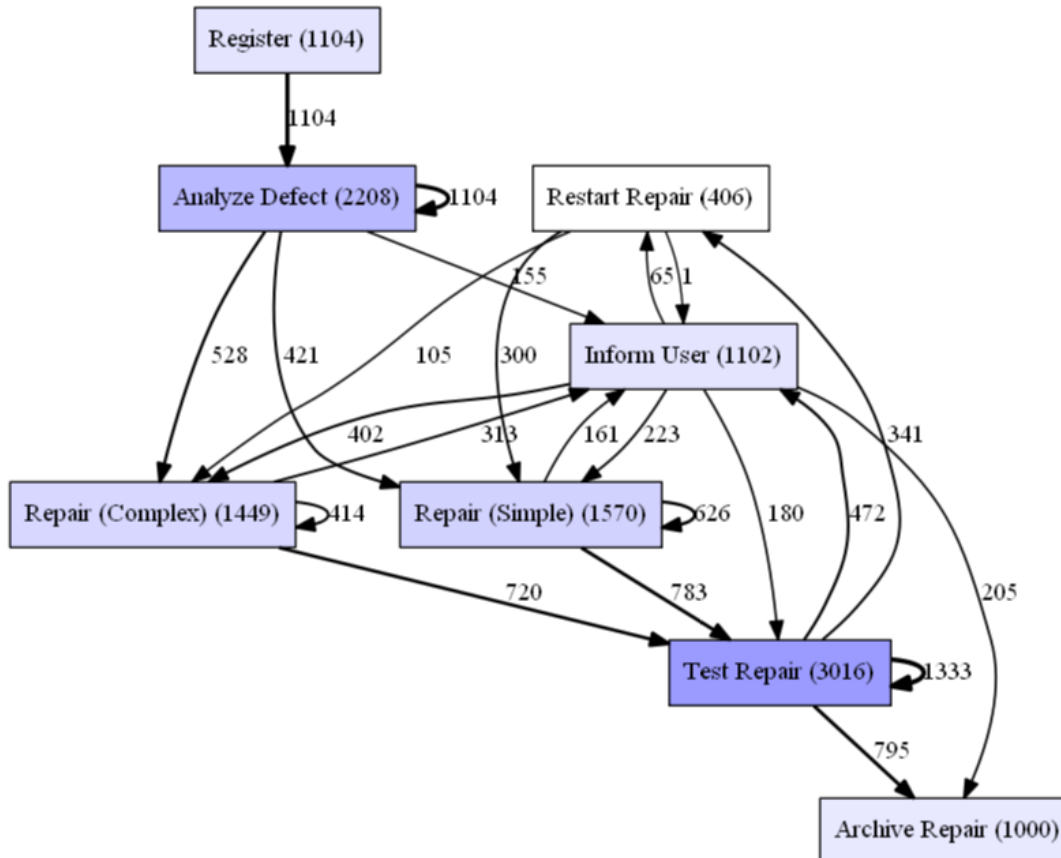
IMPORT



Level D1

```
log loaded
Number of traces - 1104
Number of events - 11855
Classifiers {}
exporting log xescert_exportlogs\exp_LevelD1.xes
exported log xescert_exportlogs\exp_LevelD1.xes
Reimporting log file just exported - xescert_exportlogs\exp_LevelD1.xes
log loaded xescert_exportlogs\exp_LevelD1.xes
Number of traces - 1104
Number of events - 11855
Classifiers {}
```

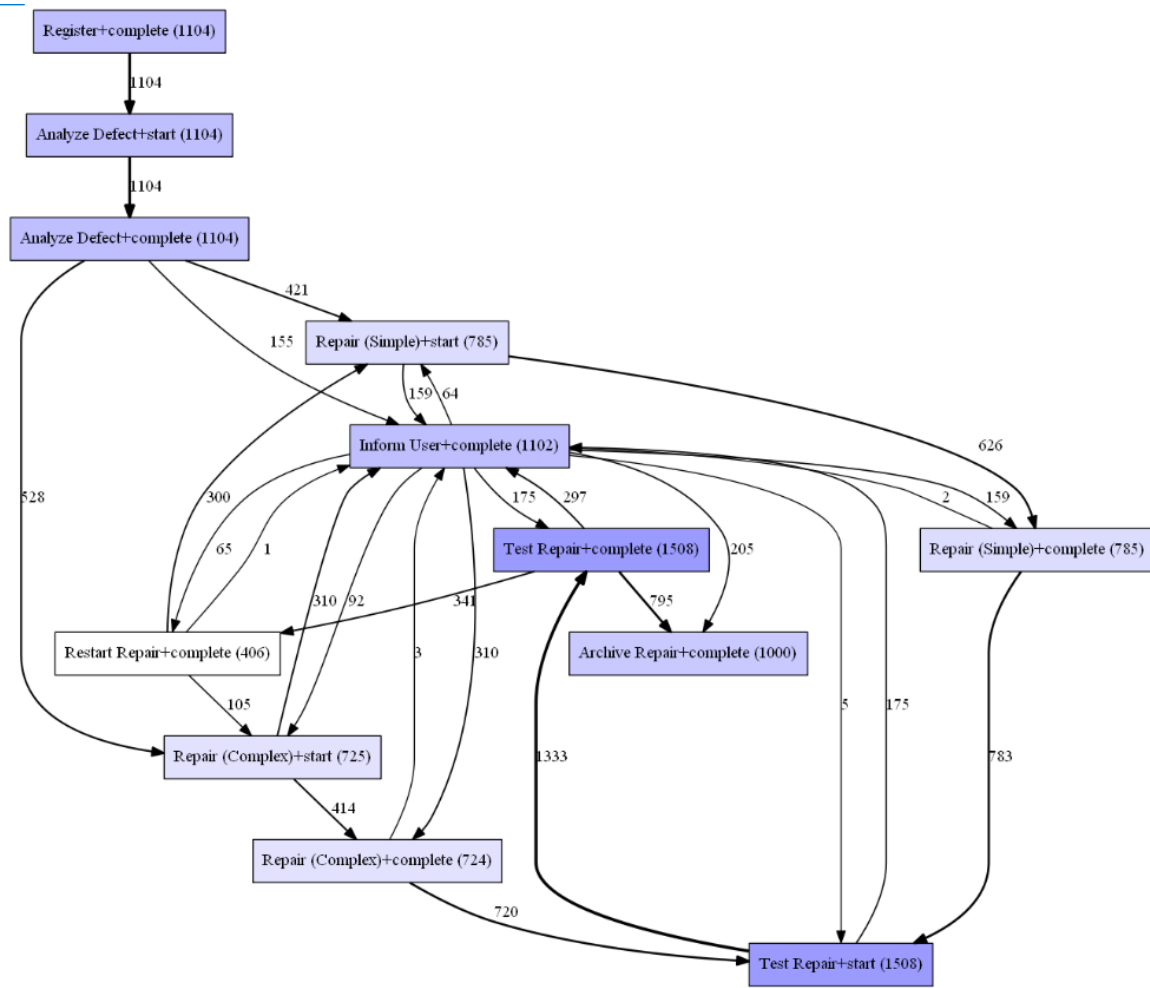
IMPORT



Level D2

```
log loaded
Number of traces - 1104
Number of events - 11855
Classifiers {'(Name AND Transition)': ['concept:name', 'lifecycle:transition']}
exporting log xescert_exportlogs\exp_LevelD2.xes
exported log xescert_exportlogs\exp_LevelD2.xes
['(Name AND Transition)']
@@classifier
Reimporting log file just exported - xescert_exportlogs\exp_LevelD2.xes
log loaded xescert_exportlogs\exp_LevelD2.xes
Number of traces - 1104
Number of events - 11855
Classifiers {'(Name AND Transition)': ['concept:name', 'lifecycle:transition']}
```

IMPORT



Flag X1

```
log loaded
Number of traces - 1104
Number of events - 11855
Classifiers {}
exporting log xescert_exportlogs\exp_FlagX1.xes
exported log xescert_exportlogs\exp_FlagX1.xes
Reimporting log file just exported - xescert_exportlogs\exp_FlagX1.xes
log loaded xescert_exportlogs\exp_FlagX1.xes
Number of traces - 1104
Number of events - 11855
Classifiers {}
```

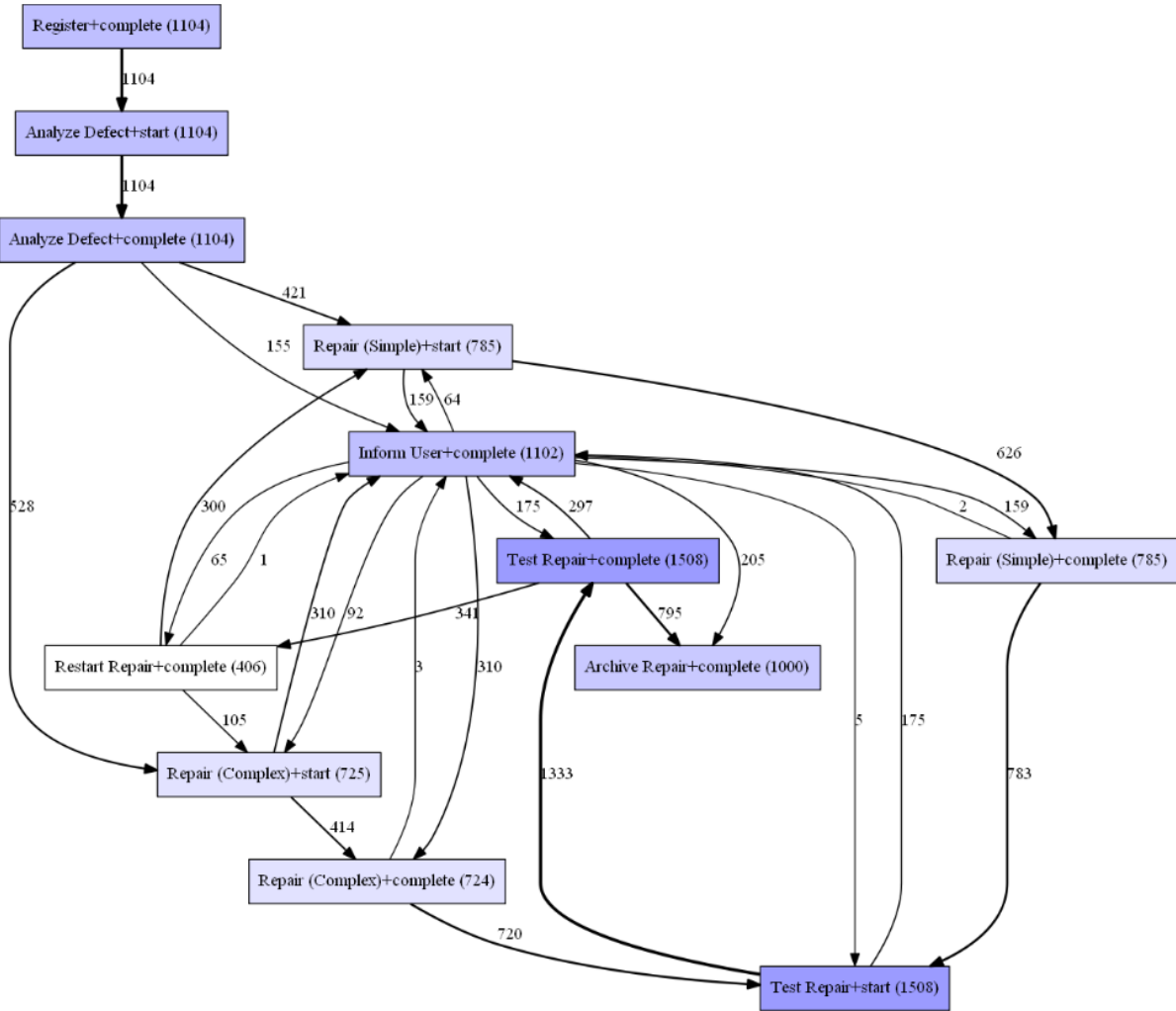
IMPORT

Note – Since, there is no classifier and no activity attributes, we cannot have a DFG visualization for this log.

Flag X2

```
log loaded
Number of traces - 1104
Number of events - 11855
Classifiers {}
exporting log xescert_exportlogs\exp_LevelA1.xes
exported log xescert_exportlogs\exp_LevelA1.xes
Reimporting log file just exported - xescert_exportlogs\exp_LevelA1.xes
log loaded xescert_exportlogs\exp_LevelA1.xes
Number of traces - 1104
Number of events - 11855
Classifiers {}
```

IMPORT



EXPORT

Export

Level A1

```
log loaded
Number of traces - 1104
Number of events - 11855
Classifiers {}
exporting log xescert_exportlogs\exp_LevelA1.xes
exported log xescert_exportlogs\exp_LevelA1.xes
Reimporting log file just exported - xescert_exportlogs\exp_LevelA1.xes
log loaded xescert_exportlogs\exp_LevelA1.xes
Number of traces - 1104
Number of events - 11855
Classifiers {}
```

Level A2

```
log loaded
Number of traces - 1104
Number of events - 11855
Classifiers {'(Name AND Transition)': ['concept:name', 'lifecycle:transition']}
exporting log xescert_exportlogs\exp_LevelA2.xes
exported log xescert_exportlogs\exp_LevelA2.xes
['(Name AND Transition)']
@@classifier
Reimporting log file just exported - xescert_exportlogs\exp_LevelA2.xes
log loaded xescert_exportlogs\exp_LevelA2.xes
Number of traces - 1104
Number of events - 11855
Classifiers {'(Name AND Transition)': ['concept:name', 'lifecycle:transition']}
```

Level B1

```
log loaded
Number of traces - 1104
Number of events - 11855
Classifiers {}
exporting log xescert_exportlogs\exp_LevelB1.xes
exported log xescert_exportlogs\exp_LevelB1.xes
Reimporting log file just exported - xescert_exportlogs\exp_LevelB1.xes
log loaded xescert_exportlogs\exp_LevelB1.xes
Number of traces - 1104
Number of events - 11855
Classifiers {}
```

EXPORT

Level B2

```
log loaded
Number of traces - 1104
Number of events - 11855
Classifiers {'(Name AND Transition)': ['concept:name', 'lifecycle:transition']}
exporting log xescert_exportlogs\exp_LevelB2.xes
exported log xescert_exportlogs\exp_LevelB2.xes
['(Name AND Transition)']
@@classifier
Reimporting log file just exported - xescert_exportlogs\exp_LevelB2.xes
log loaded xescert_exportlogs\exp_LevelB2.xes
Number of traces - 1104
Number of events - 11855
Classifiers {'(Name AND Transition)': ['concept:name', 'lifecycle:transition']}
```

Level C1

```
log loaded
Number of traces - 1104
Number of events - 11855
Classifiers {}
exporting log xescert_exportlogs\exp_LevelC1.xes
exported log xescert_exportlogs\exp_LevelC1.xes
Reimporting log file just exported - xescert_exportlogs\exp_LevelC1.xes
log loaded xescert_exportlogs\exp_LevelC1.xes
Number of traces - 1104
Number of events - 11855
Classifiers {}
```

Level C2

```
log loaded
Number of traces - 1104
Number of events - 11855
Classifiers {'(Name AND Transition)': ['concept:name', 'lifecycle:transition']}
exporting log xescert_exportlogs\exp_LevelC2.xes
exported log xescert_exportlogs\exp_LevelC2.xes
['(Name AND Transition)']
@@classifier
Reimporting log file just exported - xescert_exportlogs\exp_LevelC2.xes
log loaded xescert_exportlogs\exp_LevelC2.xes
Number of traces - 1104
Number of events - 11855
Classifiers {'(Name AND Transition)': ['concept:name', 'lifecycle:transition']}
```


EXPORT

Level D1

```
log loaded
Number of traces - 1104
Number of events - 11855
Classifiers {}
exporting log xescert_exportlogs\exp_LevelD1.xes
exported log xescert_exportlogs\exp_LevelD1.xes
Reimporting log file just exported - xescert_exportlogs\exp_LevelD1.xes
log loaded xescert_exportlogs\exp_LevelD1.xes
Number of traces - 1104
Number of events - 11855
Classifiers {}
```

Level D2

```
log loaded
Number of traces - 1104
Number of events - 11855
Classifiers {'(Name AND Transition)': ['concept:name', 'lifecycle:transition']}
exporting log xescert_exportlogs\exp_LevelD2.xes
exported log xescert_exportlogs\exp_LevelD2.xes
['(Name AND Transition)']
@@classifier
Reimporting log file just exported - xescert_exportlogs\exp_LevelD2.xes
log loaded xescert_exportlogs\exp_LevelD2.xes
Number of traces - 1104
Number of events - 11855
Classifiers {'(Name AND Transition)': ['concept:name', 'lifecycle:transition']}
```

Flag X1

```
log loaded
Number of traces - 1104
Number of events - 11855
Classifiers {}
exporting log xescert_exportlogs\exp_FlagX1.xes
exported log xescert_exportlogs\exp_FlagX1.xes
Reimporting log file just exported - xescert_exportlogs\exp_FlagX1.xes
log loaded xescert_exportlogs\exp_FlagX1.xes
Number of traces - 1104
Number of events - 11855
Classifiers {}
```

EXPORT

Flag X2

```
log loaded
Number of traces - 1104
Number of events - 11855
Classifiers {}
exporting log xescert_exportlogs\exp_LevelA1.xes
exported log xescert_exportlogs\exp_LevelA1.xes
Reimporting log file just exported - xescert_exportlogs\exp_LevelA1.xes
log loaded xescert_exportlogs\exp_LevelA1.xes
Number of traces - 1104
Number of events - 11855
Classifiers {}
```

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