IEEE Task Force on



Process Mining

XES CERTIFICATION FOR QPR PROCESSANALYZER 2018.6

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TOOL

Tool

NAME QPR ProcessAnalyzer

VENDOR QPR Software Plc

VERSION QPR ProcessAnalyzer 2018.6

REQUESTED CERTIFICATION LEVELS



Export not included in this certificate

META

Meta

AUTHORS

Teemu Lehto

DATE

05/11/2018

HISTORY

CHANGES		
AUTHOR(S)	DATE	DESCRIPTION
Teemu Lehto	05/11/2018	Document Created
Eric Verbeek	06/11/2018	Specified tool name in document title

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

1. First open the project work space

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2. Click on the import button

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- 3. Select the "QPR ProcessAnalyzer Fize" -option

4. Browser to the folder and select the file type to be *.xes

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5. After selecting the file, push next



6. Confirm the creation of a new model



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7. System automatically interprets and imports the data

8. Process is now created into a flowchart





9. To see the data in tabulated form, click Events

10. Events tab shows all the events that occur in the model.

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11. To see the event types, click on "Event Types". Event Types – Table shows the different event types occurring in the system.

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BPIC17 – Offer log



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ARTIFICIAL LOGS

FILTERED REPAIR	EXAMPLE LOGS	
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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></x> , ITEMS:41, #1, o.1.1
FlagX2	X2	defectFixed, defectType, Classifier (Key 1 AND Key 6), 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	ТҮРЕ	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></x>	string	Group - Group 1, 3, and 5 Group 2 and 4
org:resource Key 3	string	SolverC1 SolverC2 SolverC3 SolverS1 SolverS2 SolverS3 System Tester1 Tester2

		Tester3
		Tester4
		Tester5
		Pele 1 2 and 2
org:role	etring	Role 1, 2, and 3 Role 10
ITEMS:41, #1, 0.1.1	string	Role 9
time:timestamp Key 4	date	Like 1970-01-02T12:23:56.720+01:00
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		3
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Level A1

TODO: Walk-through with screenshots showing that the log is imported successfully.

TODO: Walk-through with screenshots showing that the concept:name attributes contained in the log were used.





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Level B1

TODO: Walk-through with screenshots showing that the log is imported successfully.

TODO: Walk-through with screenshots showing that the concept:name, lifecycle:transition, and time:timestamp attributes contained in the log were used.





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Level C1

TODO: Walk-through with screenshots showing that the log is imported successfully.

TODO: Walk-through with screenshots showing that the concept:name and org:resource attributes contained in the log were used.

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Level D1

TODO: Walk-through with screenshots showing that the log is imported successfully.

TODO: Walk-through with screenshots showing that all (standard) attributes contained in the log were used.



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863	Inform User - complete	5.2.1970 16.59.20	0	0 instance 1	complete	Group -	System				
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863	Test Repair - complete	5.2.1970 17.40.42	0	0 instance 3	complete	Groups 2 and 4	Tester2				
863	Archive Repair - complete	5.2.1970 17.51.49	0	0 instance 1	complete	Group -	System				
865	Register - complete	5.2.1970 18.06.54	0	0 instance 1	complete	Group -	System				
865	Analyze Defect - start	5.2.1970 18.09.14	0	0 instance 1	start	Groups 2 and 4	Tester4				
865	Analyze Defect - complete	5.2.1970 18.21.42	0	0 instance 1	complete	Groups 2 and 4	Tester4				
865	Repair (Simple) - start	5.2.1970 18.45.33	0	0 instance 1	start	Groups 1, 3, and 5	SolverS3		-		
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