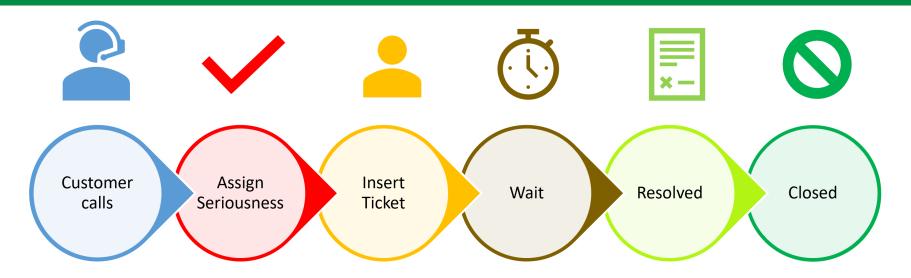
Deep Dive into Helpdesk Activities Process Mining Insights



Data Overview



of tickets 4.479 # of activities 14

of events 20.937

Events

of users

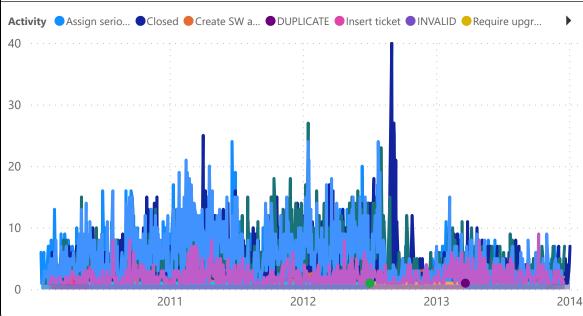
22

193

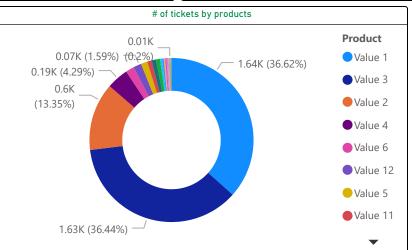
of Variants

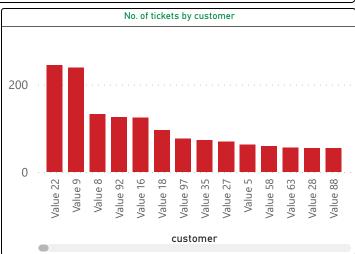
Activities Select all Assign seriousness Closed Create SW anomaly DUPLICATE Insert ticket INVALID Require upgrade Resolve SW anomaly Resolve ticket RESOLVED Schedule intervention ■ Take in charge ticket VERIFIED Wait

Take in charge tic... Assign seriousness Resolve ticket Closed Wait 6.70% Insert ticket 0.54% Require upgrade 0.50% Create SW anom... 0.27% Resolve SW ano... 0.04% Schedule interve... 0.02% VERIFIED 0.01% **DUPLICATE** 0.00% INVALID 0.00% RESOLVED 0.00% 0% 10% 20%



Events





of products

20

Process discovery

13/01/2010 🛗 03/01/2014 🛗

of tickets

Recurrence rate

11.97%

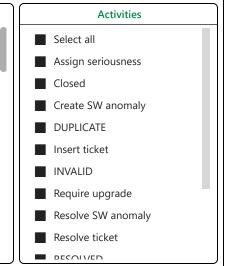
Escalation rate
2.05%

FCR rate

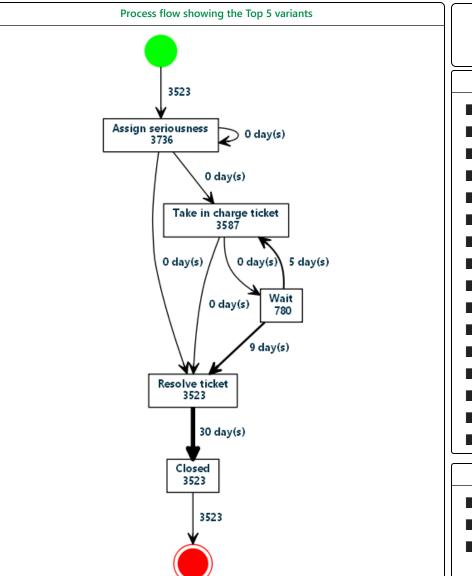
88%

4,479

Connections	
Connection	Count of Connection
Resolve ticket> Closed	4479
Assign seriousness> Take in charge ticket	4142
Take in charge ticket> Resolve ticket	3510
Take in charge ticket> Wait	1221
Wait> Resolve ticket	744
Wait> Take in charge ticket	547
Assign seriousness> Assign seriousness	438
Assign seriousness> Resolve ticket	257
Resolve ticket> Resolve ticket	246
Resolve ticket> Take in charge ticket	150
Ai-li-ak A-ai-ma-a-mi-ma-a-a-	111
Total	16458

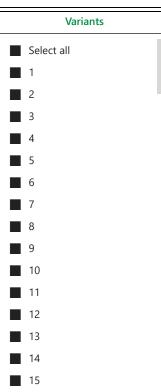


Events transition matrix							
Activity	Assign seriousness	Closed	Create SW anomaly	DUPLICATE	INVALID	Require upgrade	Resol
Take in charge ticket	1		47			68	
Assign seriousness	438		4			8	
Resolve ticket	1	4479				1	
Wait	2		2			6	
Insert ticket	111						
Require upgrade			1			12	
Create SW anomaly			3			7	
Closed		14					
Resolve SW anomaly						2	
Schedule intervention							
Total	553	4494	57	1	1	104	



of Variants

193





Timing analysis



of orders
4,479

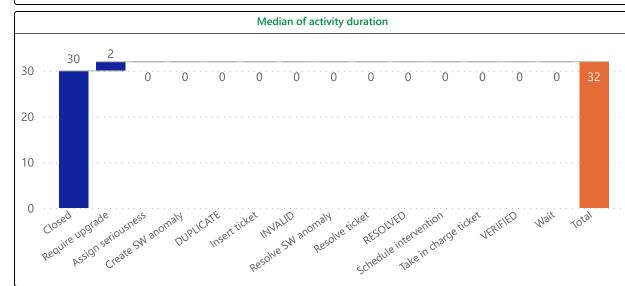
Med. duration in days

Max. duration in days

SLA breach rate

28%

Case duration							
600	<u>:</u>		Median: 39	:	:	:	:
600							
400							
200							
0	30	35	40	45	50	55	6



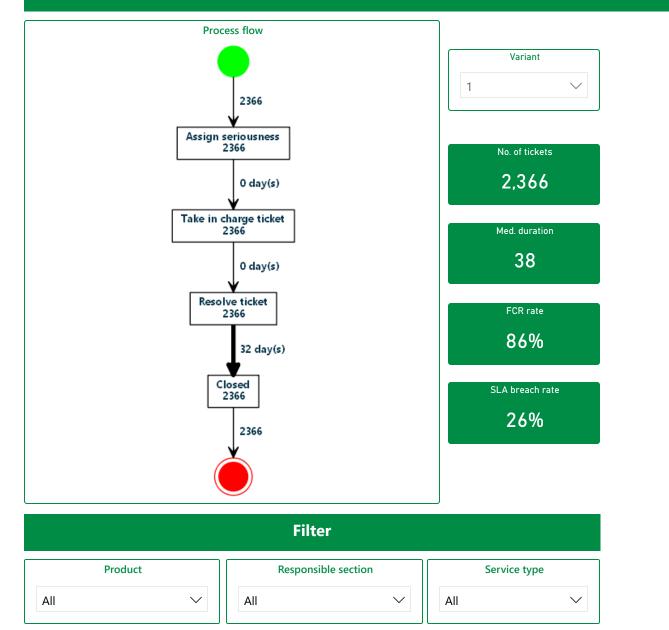
Median cycle times between activities							
Activity	Assign seriousness	Closed	Create SW anomaly	DUPLICATE	INVALID	Require upgrade	Resolve SV
Assign seriousness	0		10			12	
Closed		0					
Create SW anomaly			0			4	
DUPLICATE							
Insert ticket	0						
INVALID							
Require upgrade			4			1	
Resolve SW anomaly						0	
Resolve ticket	13	30				1	
Total	0	30	0	0	Ô	2	

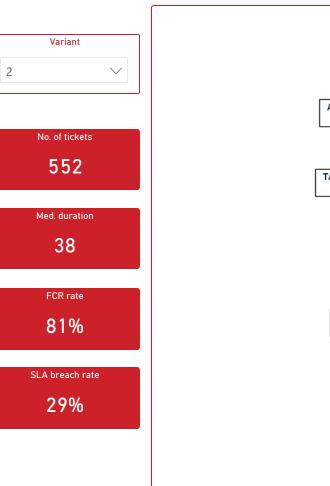
Median duration beteeen a	ctivities
Connection	Median of Duration ▼
Resolve ticket> Closed	30
DUPLICATE> Resolve ticket	28
VERIFIED> Closed	23
Take in charge ticket> Resolve SW anomaly	21
Resolve SW anomaly> Resolve ticket	18
Create SW anomaly> Resolve ticket	15
Require upgrade> Resolve ticket	15
Resolve ticket> Assign seriousness	13
Assign seriousness> Require upgrade	12
Assign seriousness> Create SW anomaly	10
Schedule intervention> Resolve ticket	10
Wait> Resolve ticket	9
Wait> Assign seriousness	8
Wait> Take in charge ticket	5
Create SW anomaly> Resolve SW anomaly	5
Wait> Create SW anomaly Total	5 3

Median case duration by product					
product	Median of Case_Duration_days ▼				
Value 18	52				
Value 9	45				
Value 17	44				
Value 3	43				
Value 1	38				
Value 12	38				
Value 19	38				
Value 2	38				
Value 5	37				
Value 20	36				
Value 7	36				
Value 4	35				
Value 6	35				
Value 13	34				
Value 14	34				
Value 11	33				
Value 15	33				



Process Benchmarking



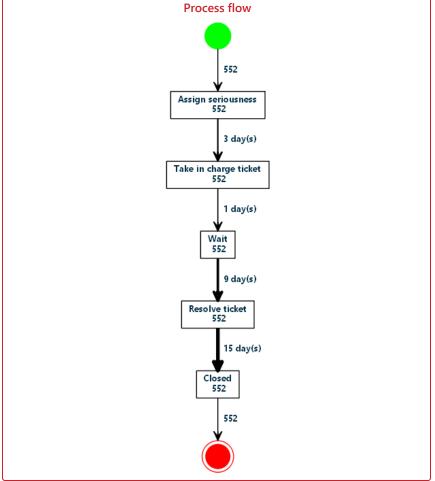


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ΑII

Product

Αll



 \vee

Αll

Service type

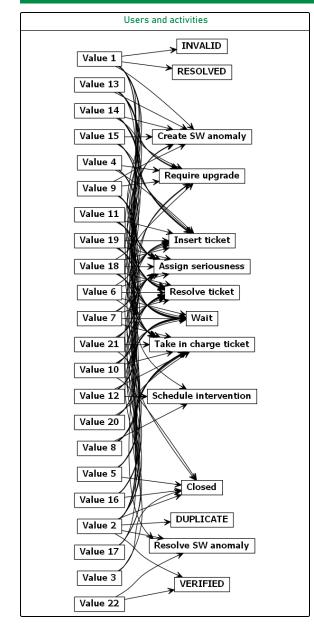
 \vee

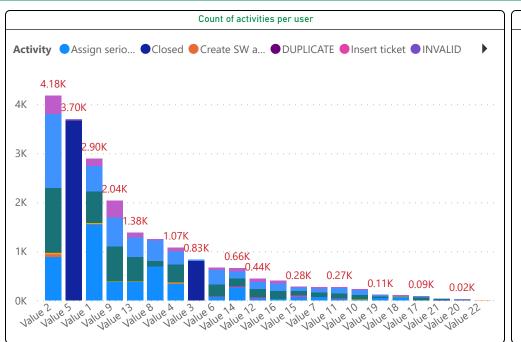
Filter

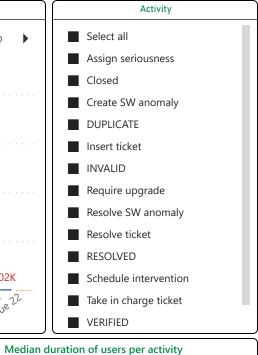
Responsible section

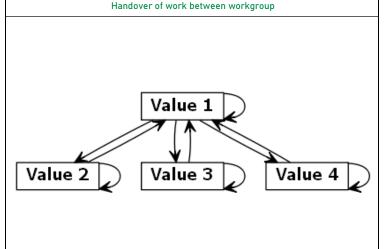


Users analysis









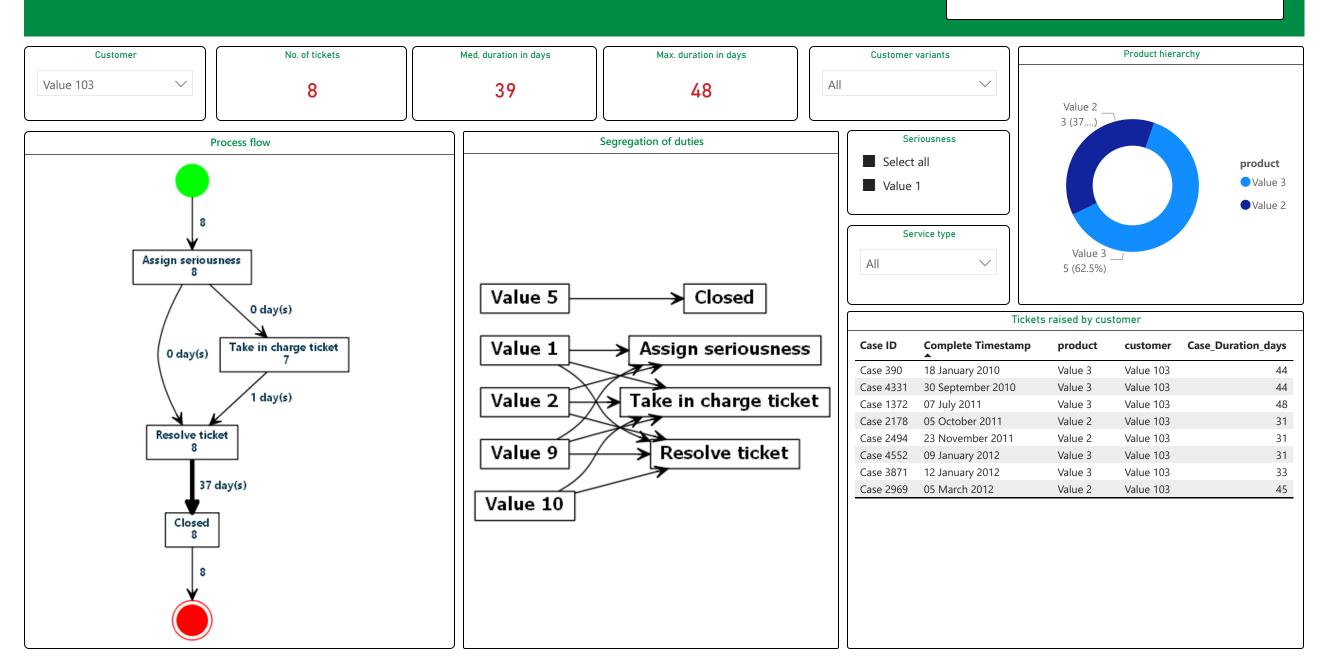
Resource	Activity	Median of Duration ▼
Value 2	Closed	59
Value 10	Closed	31
Value 5	Closed	31
Value 16	Closed	22
Value 21	Take in charge ticket	19
Value 18	Resolve ticket	16
Value 3	Closed	15
Value 20	Resolve ticket	13
Value 20	Assign seriousness	9
Value 13	Require upgrade	7
Value 21	Resolve ticket	7
Value 21	Create SW anomaly	5

Earliest timestamp per user				
Earliest Complete Timestamp	Resource			
13/01/2010 08:40:25	Value 2			
20/01/2010 09:15:20	Value 15			
22/01/2010 08:46:15	Value 11			
08/02/2010 15:06:58	Value 16			
09/02/2010 15:01:11	Value 21			
11/02/2010 15:59:39	Value 5			
15/02/2010 16:17:46	Value 10			
25/02/2010 16:56:34	Value 12			
12/03/2010 11:17:34	Value 6			
23/06/2010 14:35:52	Value 14			
29/06/2010 12:42:13	Value 19			
29/06/2010 14:00:48	Value 9			
08/07/2010 15:19:15	Value 7			
04/08/2010 12:45:34	Value 17			
02/12/2010 16:39:04	Value 8			
20/12/2010 14:10:32	Value 13			
12/09/2011 09:53:36	Value 1			
06/10/2011 14:29:43	Value 4			
03/07/2012 17:25:15	Value 22			
22/08/2012 14:24:49	Value 3			
02/09/2013 13:32:56	Value 18			
13/09/2013 10:57:14	Value 20			



Customer

Value 103



Order number

Ticket details Case 100

Start time

12 April 2013

Product

Value 1

Responsible section

Value 1

Seriousness

Value 1

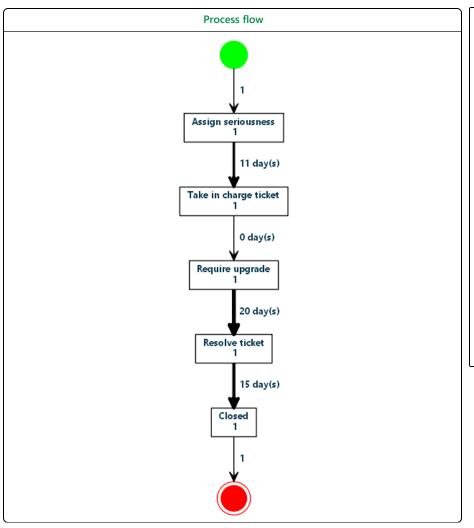
Service type

Value 1

Duration (days)

Case 100 V

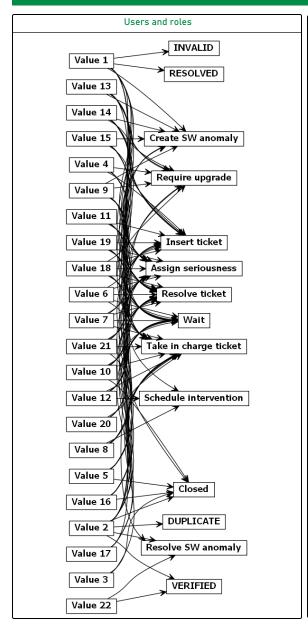
Ticket number

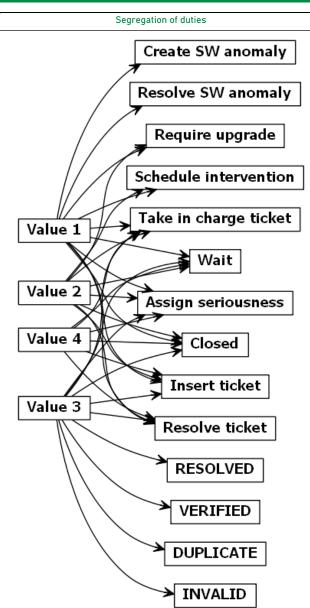


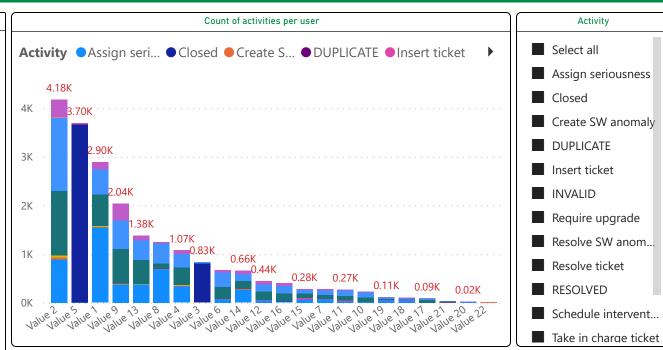
	Order timeline						
	Apr 14	Apr 21	Apr 28	May 05	May 12	May 19	May 26
Assign seriousness							
Take in charge tic							
Require upgrade							
Resolve ticket							
Closed							
4							-

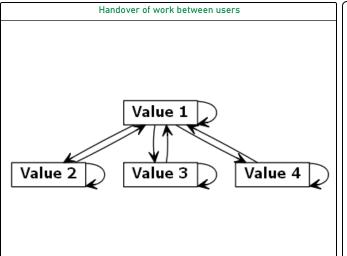


Users analysis









Median duration of users per activity						
Resource	Activity	Median of Duration ▼				
Value 2	Closed	59				
Value 10	Closed	31				
Value 5	Closed	31				
Value 16	Closed	22				
Value 21	Take in charge ticket	19				
Value 18	Resolve ticket	16				
Value 3	Closed	15				
Value 20	Resolve ticket	13				
Value 20	Assign seriousness	9				
Value 13	Require upgrade	7				
Value 21	Resolve ticket	7				
Value 21	Create SW anomaly	5				

Activity