

ADDNODE GROUP

Operations efficiency





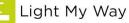
TECHNIA Software





Productivity, adoption, configurability & in-app training







Quality standards, optimized comparisons and Legal standard compliance

CAVA

• Q-Checker

xCompare

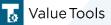


Supplier collaboration and lightweight applications



Operations Excellence, System Tuning, Client distribution, Configurable & Scalable Enterprise Integrations

🔁 myPLM



Integration Framework



TECHNIA Software





Profiler



Diagnose and health check



Analysis & investigations











Platform Intelligence

Proactive platform operations - System analysis





Visualization of system operational data

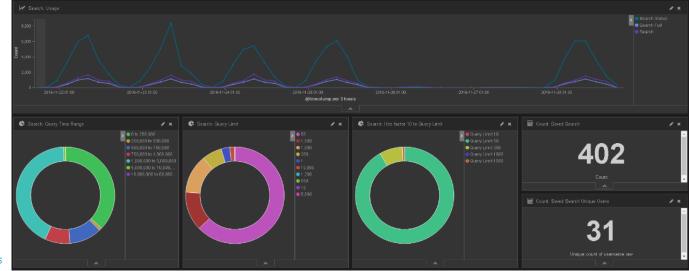
Extract and collect 'all' important 3DExperience and operational data, with minimal system impact



Align and visualize data in Dashboards



- > Concurrent analysis of all key 3DX data
- Helicopter view of system health
- Spot anomalies
- Quality assured facts rather than hearsay
- Drill down into selected data to see details
- Zoom in on specific time intervals
- Real-time analysis
- Compare presence with history
- Predict the future by trend analysis
- Get notified in time



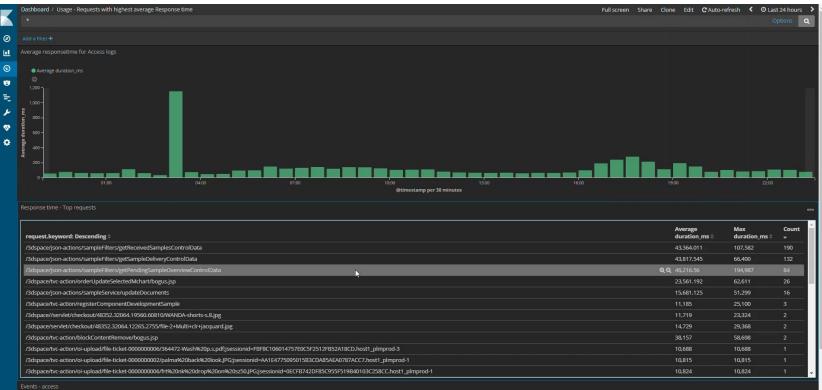
EXPERIENCE MATTERS



D



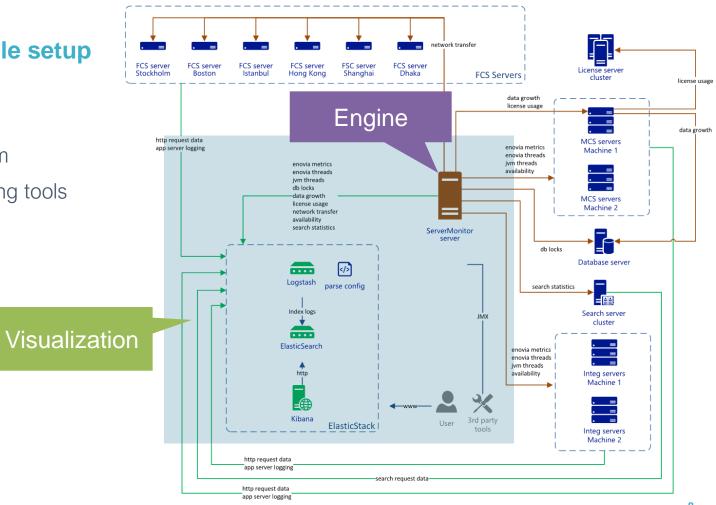
Short demo



									55,881 💽 ≥ 🕯
Time	username	clientip	request	duration_ms 🗸	bytes	country	response	hostname	Instance
November 15th 2018, 03:04:52.837	U4168957314	192.246.0.181	/3dspace/tvc-action/prepareViewTable	694,103	7,692		200	INV714264	3
November 15th 2018, 03:04:52.865	U4168957314	192.246.0.181	/3dspace/tvc-action/ajax	627,243			200	INV714264	3
November 15th 2018, 03:04:52.821	U4168957314	192.246.0.181	/3dspace/tvc-action/prepareViewTable	613,719	7,692		200	INV714264	3

Schematic example setup

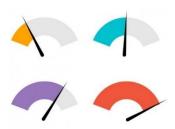
- Simple setup
- No impact on system
- Complements existing tools







Optimize operations by gaining intelligence and control



Application load



Proactive analysis and troubleshooting



Usage patterns

- Smooth system operations
- Stop 'reacting' to emergencies by instead being one step ahead
- A 3DEXPERIENCE system
 perspective instead of an
 operation discipline perspective

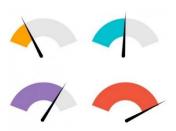
- Identify problems and analyse
 trends in the fastest way
- Be able to act before the users complain
- Understand what problems affect
 most users

- Solving the right problems
- Value based spending
- Identify faulty user behaviours





Answering common questions in different areas



Application load

- What does the overall usage of the system look like?
- How is the load distribution per service and per country?
- What do the network characteristics look like?



Proactive analysis and troubleshooting

- What application exceptions are most critical to act on?
- Are users' browser cache utilized correctly with static content?
- What are the most frequent longrunning user requests?
- What is taking the most time in the Enovia core and is there any blocking database locks?



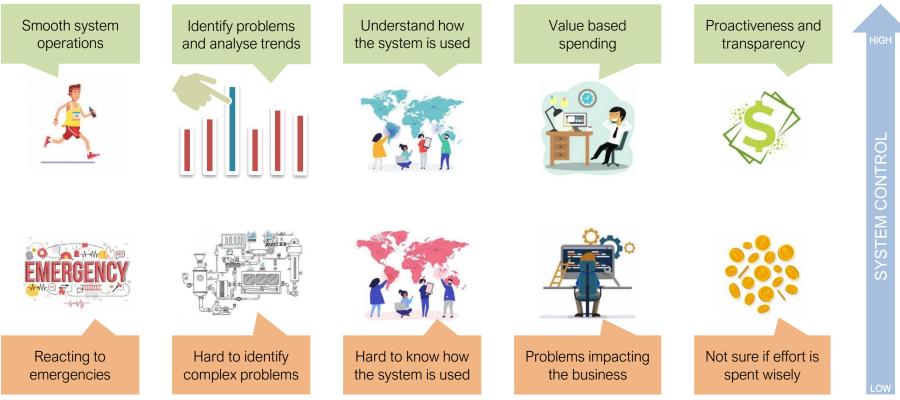
Usage patterns

- How is Search used?
- How often is certain functionality used, and how does the data grow?
- How much are certain functionalities used?
- How much are different countries / offices using certain functionality?





Optimize operations by gaining intelligence and control









Data Managed by different parts of the organization

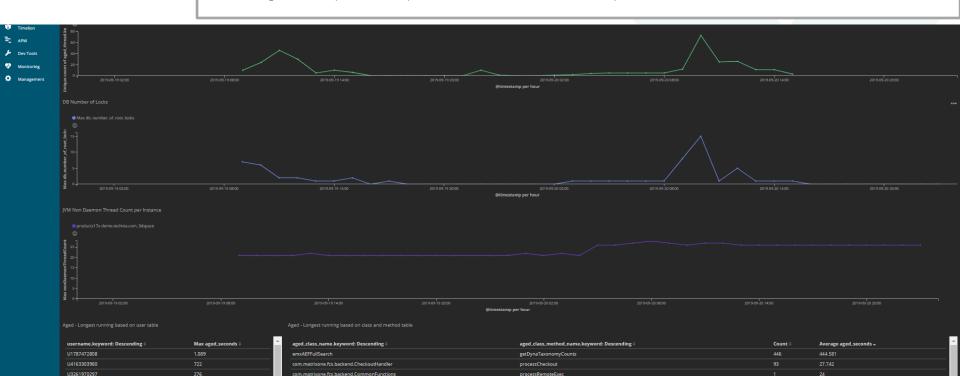


Problem Diagnosis

With Platform Intelligence:

For the time close to when the problem occurred, get consolidated view of Database behavior, JAVA parameter behavior etc (DB Locks, Long-running threads, JVM Usage, and related), actions performed by what user. These metrics are key to performance monitoring: investigation, prevention. Can eliminate and/or find different problem areas. Can be retrieved and analyzed also for earlier occurrences

Without Platform Intelligence (e.g. Manually): Time consuming parsing through the different source logs, without any previous indication of where the problem might be Data coming from multiple sources (Database, JVM Threads, Processes)





Preventive Performance

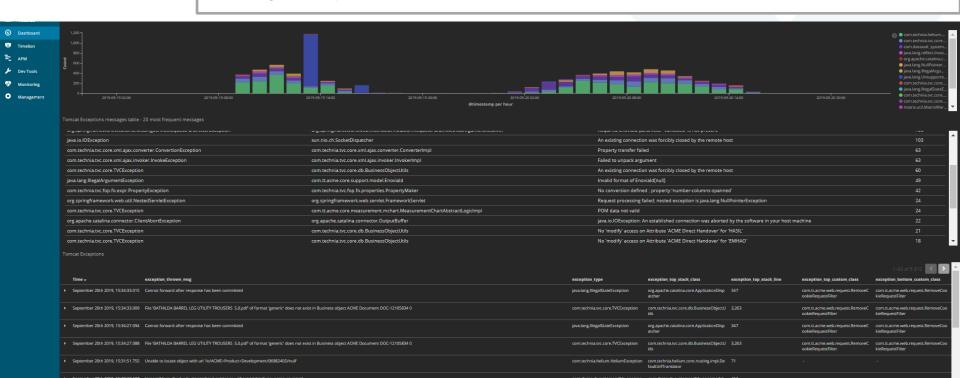
With Platform Intelligence:

Get overview of TomEE (webserver) Exceptions for checking Code & Web Application Performance Check the response codes from static content. The more static content is saved, the better overall the performance are for a web application.

It is also coupled with the most Active Users and which resources were accessed.

Without Platform Intelligence (e.g. Manually):

Time consuming parsing through the different source logs, without any previous indication of where the problem might be Data coming from multiple sources



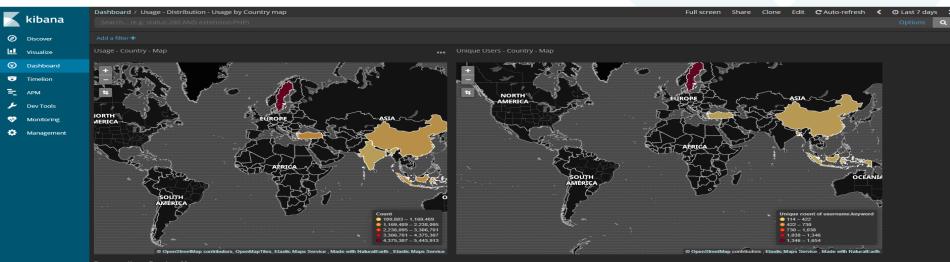


Trends

With Platform Intelligence:

Get overview of your system through the different domains and learn about it: informed decisions System Usage: 3DX Instance Metrics, Network Transfer Times, FCS Usage Business Usage: integration reports, user distributions by country, events, use cases, ...

Without Platform Intelligence (e.g. Manually): Time consuming parsing through the different source logs, without any previous indication of where the problem might be Data coming from multiple sources





Example views

Understanding application load

What do the network characteristics look like?

Proactive analysis and troubleshooting

Identify TomEE Exceptions to be able to act on most critical

Are users' browser cache utilized correctly with static content?

Advanced troubleshooting by combining important logs using the same timeline

Identify and analyse long-running user requests

Identify and analyse long-running Enovia threads and database locks

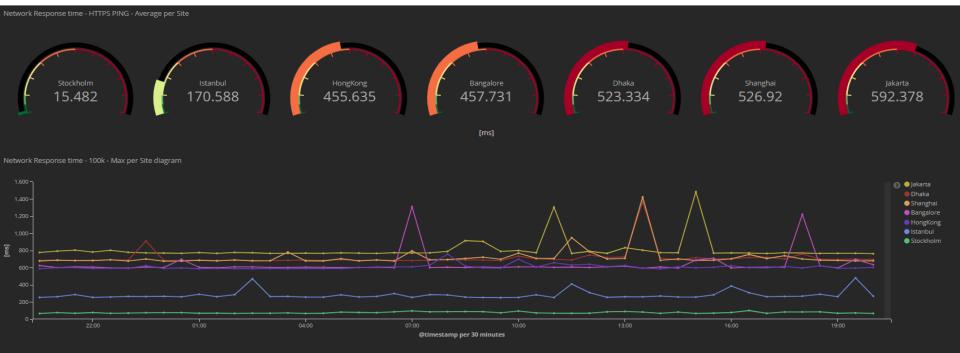
Understanding functionality usage

How is Search used?

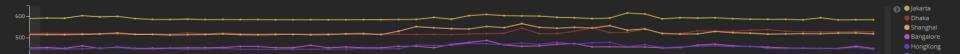
How often is certain functionality used, and how does the data grow?

Understanding application load

What do the network characteristics look like?

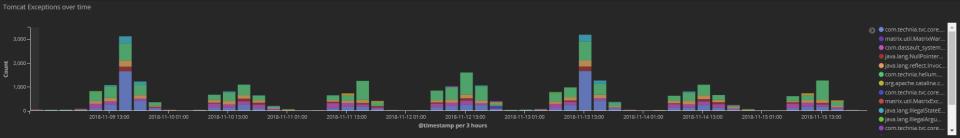


Network Response time - HTTPS PING 32b - Max per Site diagram



Identify TomEE Exceptions to be able to act on most critical



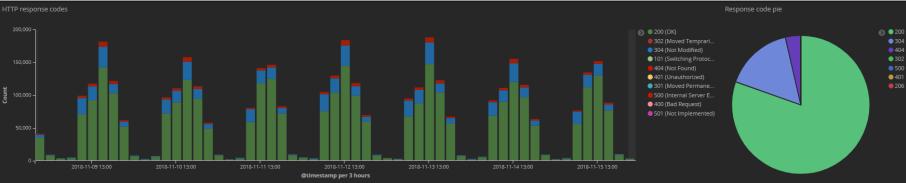


Tomcat Exceptions messages table - 20 most frequent messages

exception_type.keyword: Descending 🗢	exception_top_stack_class.keyword: Descending	exception_thrown_msg.keyword: Descending	Count 🚽
com.dassault_systemes.i3dx.appsmodel.matrix.MQLException	com.dassault_systemes.i3dx.appsmodel.matrix.Matrix	Impossible to check a businessobject existence without triplet {type, name, revision}	4,232
org.apache.catalina.connector.ClientAbortException	org.apache.catalina.connector.OutputBuffer	java.io.IOException: An existing connection was forcibly closed by the remote host	1,552
com.technia.tvc.core.TVCException	com.technia.tvc.core.db.BusinessObjectUtils	Connection timed out: connect	1,540
java.lang.lllegalStateException	org.apache.catalina.core.ApplicationDispatcher	Cannot forward after response has been committed	899
java.io.IOException	sun.nio.ch.SocketDispatcher	An existing connection was forcibly closed by the remote host	784
com.technia.tvc.core.xml.ajax.invoker.InvokeException	com.technia.tvc.core.xml.ajax.invoker.InvokerImpl	Failed to invoke service method	687
com.technia.tvc.core.TVCException	com.technia.tvc.core.db.fcs.impl.FCSBase	java.util.zip.DataFormatException: incorrect header check; FCS Bad receipt	642
java.lang.lllegalStateException	com.tt.acme.web.externalforward.router.ForwardRouter	No target object found!	454
com.technia.tvc.core.TVCException	com.technia.tvc.core.db.BusinessObjectUtils	An existing connection was forcibly closed by the remote host	450
java.lang.lllegalArgumentException	org.apache.commons.lang3.Validate	An MxName can not be empty	449
ore sorineframework web hind MissingServletRequestParameterExcention	org springframework web method apportation RequestParamMethodArgumentResolver	Required Enoviald parameter 'contextId' is not present	301
Tomcat Exceptions			

November 15th 2018, 20:25:06.142	Cannot forward after response has been committed	java.lang.lllegalStateException	org.apache.catalina.core.ApplicationDisp atcher		com.tt.acme.web.request.RemoveCoo kieRequestFilter
	File '194989 Composition 03 September 2018 174154.pdf' of format 'generic' does not exist in Business object ACME CIT Status DOC-10211399 0	com.technia.tvc.core.TVCException	com.technia.tvc.core.db.BusinessObject Utils		com.tt.acme.web.request.RemoveCoo kieRequestFilter
November 15th 2018, 19:40:58.640	Impossible to check a businessobject existence without triplet {type, name, revision}	com.dassault_systemes.i3dx.appsmodel.m atrix.MQLException	com.dassault_systemes.i3dx.appsmodel. matrix.Matrix		-

Are users' browser cache utilized correctly with static content?



esponse Code 304 per top 5 users

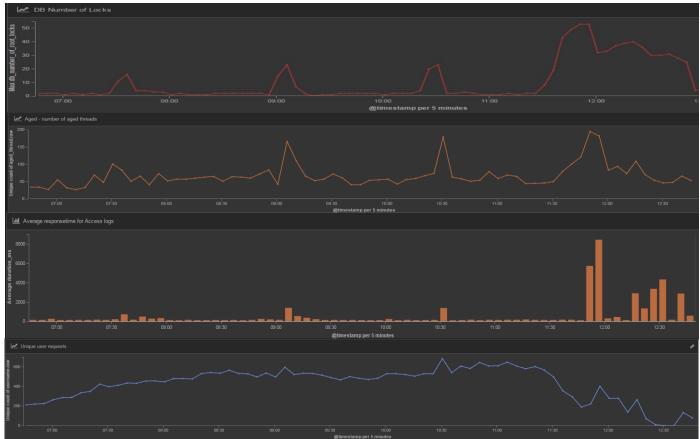
request.keyword: Descending 🗧	username.keyword: Descending ≑	Count ▼
/3dspace/common/styles/emxUIDefault.css	U4182070047	10,129
/3dspace/common/scripts/emxUICore.js	U4182070047	9,949
/3dspace/common/scripts/emxUlConstants.js	U4182070047	9,939
/3dspace/tvc/collaboration/css/images/default-avatar.png	U2077839934	9,554
/3dspace/tvc/collaboration/css/images/default-avatar.png	U1184780482	9,496
/3dspace/sw.js	U2937424238	2,920
/3dspace/sw.js	U3381044185	2,910
/3dspace/sw.js	U3985980353	2,176
/3dspace/sw.js	U3833210300	2,021
/3dspace/sw.js	U616597956	1,897
/3dspace/common/scripts/jquery-latest.js	U4182070047	1,781
/3dspace/tvc/collaboration/css/images/default-avatar.png	U3557656784	1,336
/3dspace/acme/communication/externalsystems/CommonCapabilitiesClient.css	U4182070047	1,163
		4 005

Response Code 200 per top 5 users

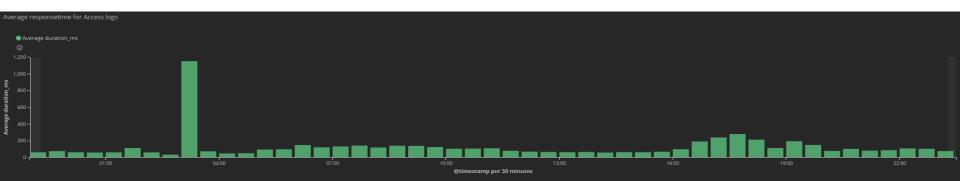
request.keyword: Descending 🗇	username.keyword: Descending ≑	Count ▼
/3dspace/tvc-action/communicationStaticResourceCrossDomainAction/helium/vendor/jquery-modules/toastr.js	U4182070047	6,000
/3dspace/tvc-action/communicationStaticResourceCrossDomainAction/tvc/collaboration/css/collaboration/fonts.css	U4182070047	4,917
/3dspace/tvc-action/communicationStaticResourceCrossDomainAction/tvc/core/styles/fonts/iconfonts/fontawesome/css/font- awesome.min.css	U4182070047	4,793
/3dspace/common/styles/emxUIDefault.css	U4182070047	4,485
/3dspace/common/scripts/emxUICore.js	U4182070047	4,316
/3dspace/common/scripts/emxUlConstants.js	U4182070047	4,294
/3dspace/tvc- action/communicationStaticResourceCrossDomainAction/acme/communication/collaborationextensions/ACMEContentModifierProcessor.js	U1692745593	1,954
/3dspace/tvc- action/communicationStaticResourceCrossDomainAction/acme/communication/collaborationextensions/ACMEContentModifierProcessor.js	U1803101867	1,442
/3dspace/tvc- action/communicationStaticResourceCrossDomainAction/acme/communication/collaborationextensions/ACMEContentModifierProcessor.js	U3819814393	1,152
/3dspace/tvc- action/communicationStaticResourceCrossDomainAction/acme/communication/collaborationextensions/ACMEContentModifierProcessor.js	U1802937124	1,045



Advanced troubleshooting by combining important logs using the same timeline



Identify and analyse long-running user requests



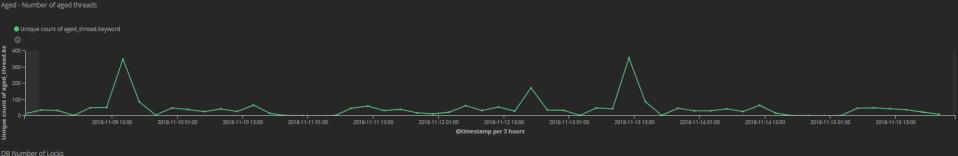
Response time - Top requests

request.keyword: Descending 🗄	Average duration_ms \$	Max duration_ms ≎	Count T
/3dspace/json-actions/sampleFilters/getReceivedSamplesControlData	43,364.011	107,582	190
/3dspace/json-actions/sampleFilters/getSampleDeliveryControlData	43,817.545	66,400	132
/3dspace/json-actions/sampleFilters/getPendingSampleOverviewControlData	46,216.56	194,987	84
/3dspace/tvc-action/orderUpdateSelectedMchart/bogus.jsp	23,561.192	62,611	26
/3dspace/json-actions/sampleService/updateDocuments	15,681.125	51,299	16
/3dspace/tvc-action/registerComponentDevelopmentSample	11,185	25,100	3
/3dspace//servlet/checkout/48352.32064.19560.60810WANDA-shorts-s.8.jpg	11,719	23,324	2
/3dspace/servlet/checkout/48352.32064.12265.2755/file-2+Multi+clr+jacquard.jpg	14,729	29,368	2
/3dspace/tvc-action/blockContentRemove/bogus.jsp	38,157	58,698	2
/3dspace/tvc-action/oi-upload/file-ticket-000000006/364472-Wash%20p.s.pdfjisessionid=FBF8C106014757E0C5F2512FB52A18CD.host1_pImprod-3	10,688	10,688	1
/3dspace/tvc-action/oi-upload/file-ticket-000000002/palma%20back%20look.jPG;jsessionid=AA1E4775095015B3CDA85AEA0787ACC7.host1_plmprod-1	10,815	10,815	1
/3dspace/tvc-action/oi-upload/file-ticket-000000006/frt%20nk%20drop%20on%20sz50.JPG;jsessionid=0ECFB742DF85C955F519B40103C258CC.host1_plmprod-1	10,824	10,824	1 🗸

 November 15th 2018, 17:42:09.538 U1489930818 	192.62.49.134	/3dspace/json-actions/persondata/getPersonCache	203,703	23,385	Sweden	200	INV714281	
 November 15th 2018, 17:40:51.173 U2567366278 	192.67.140.148	/3dspace/json-actions/persondata/getPersonCache	196,448	23,385	Sweden	200	INV714264	

Identify and analyse long-running Enovia threads and database locks





@timestamp per 3 hours

Aged - Longest running based on user table

userna

U32560

U24290

Aged - Longest running based on class and method table

name.keyword: Descending 🖨	Max aged_seconds 🖨	▲ aged_class_name.keyword: Descending ≑	aged_class_method_name.keyword: Descending	Count 🗸
113646	810	com.matrixone.fcs.backend.CheckoutHandler	processCheckout	923
6058327	806	emxAEFFullSearch	getDynaTaxonomyCounts	434
9000751	802	com.matrixone.fcs.backend.CheckoutHandler	processGetStaticFileURL	215
9054679	797	ACMELabTestReport	generateAndSaveReport	126
2883177	789	com.matrixone.fcs.backend.CommonFunctions	processRemoteExec	6

Understanding functionality usage

How is Search used?





Unique count of username.keyword

Count

Understanding functionality usage

How often is certain functionality used, and how does the data grow?





Pro-Active Operations

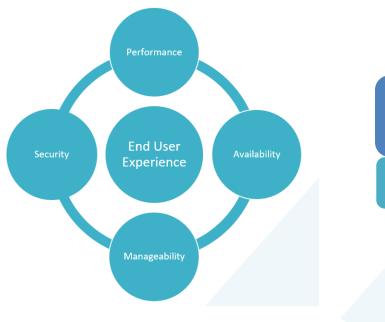
With Platform Intelligence:

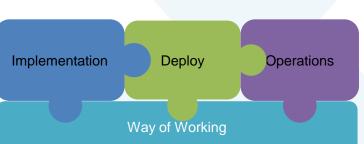
The intelligences about your platform allows you to both address urgent issues (short-term) but as well plan your operations efficiently through objective and informed decisions (long term) ldentify areas of improvement, plan accordingly

Continuous Feedbacks about your system usage: understand, learn then improve continuously.

Manually:

Time consuming parsing through the different source logs, without any previous indication of where the problem might be Data coming from multiple sources







Getting Started with Platform Intelligence





Making sure you get the benefits you need with Platform Intelligence





Profiler

Proactive platformoperations- Performance analysis





Reveals bad performance implementations

S SDEXPE	RIENCE ENOVIA Project Management	Search	2 🛇 😐	Tom Waits 🚯 🕂 🎓 🏠 😨	
Alfa Project Space	A project State : Ready * In Wo ce (11493 Owner : Tom Waits	rk + In Review			
	Modified : Nov 7, 2018 10:	42:10 AM			
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chedule+	→ □ Marketing	In W 0.0 640.0 0.0	640.0 12.2 2017 2017-r	Overview Trace Sessions Timelin	
lders+	→ 🗆 😰 Budget	Preli 0.0 48.0 0.0	48.0 0.0 2017 2017-r 🗸		
	→ 🗋 📓 Allocate Resources	In W 0.0 280.0 0.0	280.0 40.0 2017 2017-m.		
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	→ 📄 📴 Estimate market	Ready 0.0 24.0 0.0	24.0 0.0 2017 2017-ap.	/tvc/structurebrowser/tvcTableViewLoadProxy.jsp	01:53:46,980 PM .000 .00
	- 🗖 🕮 Decian	D 0.0 04.0 0.0	04.0 0.0 0047 0047	/tvc-action/lazy	01:53:46,995 PM .000 .0
				/tvc-action/prepareViewTable	01:53:47,308 PM .906 .15

ŀ	/tvc/structurebrowser/tvcTableViewLoadProxy.jsp		01:53:46,980 PM	.000		.000	0	1
ŀ	/tvc-action/lazy		01:53:46,995 PM	.000		.000	0	
þ	/tvc-action/prepareViewTable		01:53:47,308 PM	.906		.156	36	
	- Boad table [1 row]		01:53:47,308 PM	.000	0.0%	.000	0	
	expand node [3 levels; 37 children]	L.	01:53:47,308 PM	.031	3.4%	.015	10	
	evaluate table [38 rows]		01:53:47,339 PM	.781	86.2%	.094	5	
	Select data from relationships [37]		01:53:47,402 PM	.000	0.0%	.000	1	
	Select data from business objects [38]		01:53:47,417 PM	.094	10.4%	.094	1	
	emxTask:getStatusIcon		01:53:47,511 PM	.016	1.8%	.000	3	
	- 🦪 allocate context		01:53:48,120 PM	.000	0.0%	.000	1	
	— 💭 get client tasks		01:53:48,120 PM	.000	0.0%	.000	1	
	- 💷 initInterface.bosInterface		01:53:48,120 PM	.016	1.8%	.016	1	

Select data from business objects [38]

Begin:	01:53:4	7,417 PM	DB Calls:	1
End:	01:53:4	7,511 PM	DB Duration:	0:00.094
Duration:		0:00.094	DB Duration (%):	100.0%
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Overview Parameters Content Location Error



Schema Tool

Proactive platform operations - Schema management





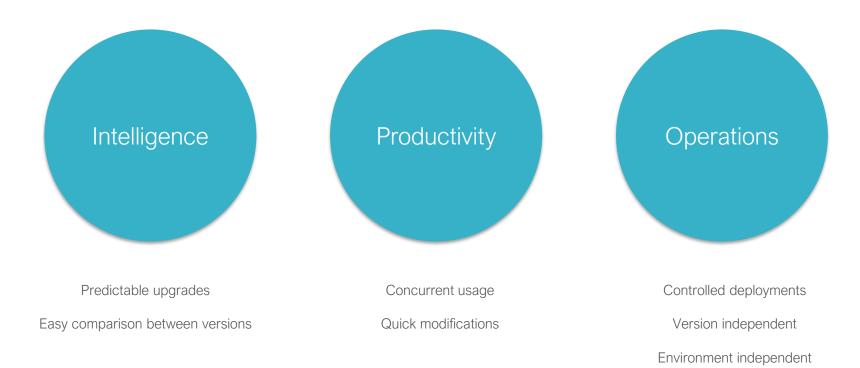
Short demo

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Data modelling experiences





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