

<u>DBPLUS</u> <u>Performance Monitor for Oracle</u> <u>description of changes in version 2021.4</u>

Date: December 31, 2021



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Below is a list of changes to the DBPLUS Performance Monitor system for Oracle database monitoring.

New in 2021.4

1 REST API – Performance Monitor

In the latest version of the application, we have added new methods to the REST API:

- get information about Outage,
- Outage management,
- Management of DBPLUS instance monitoring.

1.1. REST API call

To call a method for a given platform, the appropriate method must be completed in the link that calls the REST API. For example, below is calling the outages method for the Oracle platform. For example, below is calling the *outages* method for the Oracle platform. An example of calling a method: https://hostname/DPMOracle.RestApi/outages

Due to the use of the POST method for managing monitoring instances, it is recommended to use the *https* protocol for the DBPLUS Performance Monitor application (applies to the application itself as well as the Rest API) and to use additional authorization using the *Security Token* available in the DBPLUS Rest API configuration.

1.2. REST API DBPLUS calling methods

Method		GET						
Database platform		PostgreSQL, Oracle, MS SQL						
URL		/outages						
Action		Getting information about temporary instance exclusions from						
		DBPLUS monitoring						
Input data: missing								
Output data:								
OutageList	Outage lis	t						
OutageRecord	Outage de	taild						
Outageld	Outage ID							
ServerId	Server ID i	n the DBPLUS repository						
Enabled	Outage sta	atus						
DateFrom	The date f	rom Outage is effective. Format [YYYY:MM:DD]						
DateTo	The date t	o Outage is effective. Format [YYYY:MM:DD]						
TimeFrom	Time from	ו Outage is effective. Format [hh:mm]						
TimeTo	Time to O	utage is effective. Format [hh:mm]						
Description	Descriptio	n						
Monday	The day of the week that Outage is activated:							
	■ tri	Je						
	■ fa	lse						
Tuesday	The day of	the week that Outage is activated:						
	■ tri	Je						
	■ fa	se						
Wednesday	The day of	the week that Outage is activated:						
	■ tri	true						
	■ ta							
Thursday	The day of	the week that Outage is activated:						
	tru - C	Je						
F (1)	■ ta							
Friday	The day of	the week that Outage is activated:						

1.2.1. Get information about Outage



 true
■ false
The day of the week that Outage is activated:
■ true
■ false
The day of the week that Outage is enabled:
 true
■ false
<pre>>7</pre>
l>16
true
>2021-12-13
021-12-21
1 />
ion> Scheduledwork
alse
which a section of the section of th
y raise (we we have a set of the
in look (Emidour)
>true
alsesunday>
>8
>14
true
· />
>
>
ion> Scheduledwork
rue
true
y>true
<pre>>true</pre>
rue
>true
rue
·d>
tageId".7."ServerId".16."Enabled".true "DateFrom"."2021-12-
12-21", "TimeFrom":"", "TimeTo":"", "Description":"Test cut- , "Tuesday":true, "Wednesday":false, "Thursday":true, "Friday":

```
lse, "Saturday":true, "Sunday":false}, {"OutageId":8, "ServerId":14, "Enabled":true,"
DateFrom":"", "DateTo":"", "TimeFrom":"", "TimeTo":"", "Description":"Scheduledwork"
, "Monday":true, "Tuesday":true, "Wednesday":true, "Thursday":true, "Friday":true,"Sa
```

1.2.2. Outage management

Method	POST
Database platform	PostgreSQL, Oracle, MS SQL
URL	/outagemanage
Action	Outage management. It allows to set up, modify or remove a temporary
	exclusion of a given instance from monitoring
Input data:	
Action	Action To Do:
	 insert
	 update
	 delete
Outageld	Outage ID
Converted	* value ignored for "insert" action
Servena	* value ignored in the case of "update" "delete" actions
Enabled	Outage Status:
	 true
	■ false
DateFrom	The date from Outage is effective. Format [YYYY:MM:DD]
DateTo	The date to Outage is effective. Format [YYYY:MM:DD]
TimeFrom	Time from Outage is effective. Format [hh:mm]
TimeTo	Time to Outage is effective. Format [hh:mm]
Description	Description
Monday	The day of the week that Outage is activated:
	 true
	 false
Tuesday	The day of the week that Outage is activated:
	true
	• false
wednesday	The day of the week that Outage is activated:
	 true folco
Thursday	 Talse The day of the week that Outage is activated:
mursuay	
	 false
Friday	The day of the week that Outage is activated:
i naay	 true
	 false
Saturday	The day of the week that Outage is activated:
	 true
	 false
Sunday	The day of the week that Outage is activated:
	true
	 false
Output data:	
Action	Action performed:
	 insert
	 update
	■ delete
Response	Response record
Status	Keply status:
1	

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Message	Error Messager
Quitagold	* completed value for Status = ERROR
Outageld	* value ignored for "insert" action
ServerId	Server ID in the DBPLUS repository
	* value ignored in the case of "update", "delete" actions
Enabled	Outage status
DateFrom	The date from Outage is effective. Format [YYYY:MM:DD]
DateTo	The date to Outage is effective. Format [YYYY:MM:DD]
TimeFrom	Time from Outage is effective. Format [hh:mm]
TimeTo	Time to Outage is effective. Format [hh:mm]
Description	Description
Monday	The day of the week that Outage is activated:
	 true
	 false
Tuesday	The day of the week that Outage is activated:
	 true
	 false
Wednesday	The day of the week that Outage is activated:
	 true
	 false
Thursday	The day of the week that Outage is activated:
	 true
	 false
Friday	The day of the week that Outage is activated:
	true
	 false
Saturday	The day of the week that Outage is activated:
	true
	 false
Sunday	The day of the week that Outage is activated:
	true
	 false
Delete Outage scenario.	
Example [xml] input data:	
<root></root>	
<action>delete</action>	
<outageid>20</outageid>	
<serverid>16</serverid>	
<enabled>true</enabled>	
<datefrom>2021-12-13<td>teFrom></td></datefrom>	teFrom>
<dateto>2021-12-18<td>·To></td></dateto>	·To>
<timefrom></timefrom>	
<timeto></timeto>	
<pre><description>Planned cha</description></pre>	nge
<monday>true</monday>	
<tuesday>true</tuesday>	
<wednesday>true<td>ay></td></wednesday>	ay>
<thursday>true<td>·></td></thursday>	·>
<friday>true</friday>	
<saturday>true<td>>></td></saturday>	>>
<sunday>true</sunday>	
Example [xml] the output dat	a:
<root></root>	



```
<OutageId>20</OutageId>
    <ServerId>16</ServerId>
    <Enabled>true</Enabled>
    <DateFrom>2021-12-13</DateFrom>
    <DateTo>2021-12-18</DateTo>
    <TimeFrom />
    <TimeTo />
    <Description>Planned change</Description>
    <Monday>true</Monday>
    <Tuesday>true</Tuesday>
    <Wednesday>true</Wednesday>
    <Thursday>true</Thursday>
    <Friday>true</Friday>
    <Saturday>true</Saturday>
    <Sunday>true</Sunday>
    <Action>delete</Action>
    <Response>
        <Status>OK</Status>
        <Message />
    </Response>
</Root>
Create Outage scenario.
Example [JSON] – input data:
```

```
"action": "insert",
    "outageId": ,
    "serverId": 16,
    "enabled": true,
    "dateFrom": "2021-12-20",
    "dateTo": "2021-12-23",
    "timeFrom": "11:20",
    "timeTo": "12:20",
    "description": "Scheduled work",
    "monday": true,
    "tuesday": true,
    "wednesday": true,
    "thursday": true,
    "friday": true,
    "saturday": true,
    "sunday": true
}
Example [JSON] – the output data:
{
    "action": "insert",
    "response": {
        "status": "OK",
        "message": ""
    },
    "outageId": 12,
    "serverId": 16,
    "enabled": true,
    "dateFrom": "2021-12-20",
    "dateTo": "2021-12-23",
    "timeFrom": "11:20",
```

{



```
"timeTo": "12:20",
"description": "Scheduled work",
"monday": true,
"tuesday": true,
"wednesday": true,
"thursday": true,
"friday": true,
"saturday": true,
"sunday": true
```

1.2.3.	Managing the	monitoring of	instances in	DBPLUS
--------	--------------	---------------	--------------	--------

Method	POST							
Database platform	PostgreSQL, Oracle							
URL	/instancemanage							
Action	Managing the monitoring of instances in DBPLUS. It allows to add or							
	remove an instance from DBPLUS monitoring.							
Input data:								
Action	Action to do:							
	 insert 							
	 delete 							
Serverld	Internal identifier of PostgreSQL instance in DBPLUS repository * value ignored for "insert" action							
SSLMode	SSL Mode connection:							
	 0= Disable 							
	 1= Prefer 							
	2= Require							
TrustSelfSignedSSICerts	Trust self-signed certificates							
Trastsensigned select to								
	■ false							
	*value provided for Postgres version only							
ConnectionType	Connection type:							
	 basic 							
	 TNS 							
HostNamo	*value provided for Oracle version only							
ConnectionName	Connection name							
ConnectionName	*value provided for Postgres version only							
Default Database	Default database							
c: 1	*value provided for Postgres version only							
Sid	Value provided for Oracle version only							
ServiceName	Service Name							
	*value provided for Oracle version only							
UseMonitoringUserOnly	Connect with existing user							
TCPPort	Port							
UserMonitoring	Monitoring user data							
UserName	User name							
Password	Password							
InternalAuthentication	Domain Authorization							
DBARole	SYSDBA role:							
	■ true							
	 false 							
	*value provided for Oracle version only							
CreateUser	Create new monitoring user:							

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	true								
UserAdmin	 Talse User Admin data 								
UserName	User name								
Password	Password								
InternalAuthentication	Domain Authorization								
DBARole	SYSDBA role:								
	■ true								
	 false 								
UserMonitoringTablesnace	*value provided for Oracle version only Monitoring user Tablespace								
osermonitoring rabiespace	*value provided for Oracle version only								
UserMonitoringTempTablespace	Monitoring user Temp Tablespace *value provided for Oracle version only								
UserMonitoringProfile	Monitoring user Profile								
Output data:									
Response	Response record								
Status	Status:								
	 OK 								
	ERROR								
Message	Error Message *value provided for Status=ERROR only								
Action	Action to do:								
	 insert 								
	 delete 								
Serverld	Internal identifier of PostgreSQL instance in DBPLUS repository * value ignored for "insert" action								
SSLMode	SSL Mode connection:								
	 0= Disable 1 Deefer 								
	 I= Preter 2- Require 								
	* value provided for Postgres version only								
TrustSelfSignedSSLCerts	Trust self-signed certificates								
	true								
	 false 								
ConnectionType	Connection type:								
connectiontype	 basic 								
	TNS								
	*value provided for Oracle version only								
HostName	Host name or IP								
ConnectionName	Connection name *value provided for Postgres version only								
DefaultDatabase	Default database								
Sid	*value provided for Postgres version only								
	*value provided for Oracle version only								
ServiceName	Service Name *value provided for Oracle version only								
UseMonitoringUserOnly	Connect with existing user *value provided for Oracle version only								
TCPPort	Port								
UserMonitoring	Monitoring user data								
UserName	User name								
Password	Password								
InternalAuthentication	Domain Authorization								

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DBARole	SYSDBA role:							
	true							
	 false 							
	*value provided for Oracle version only							
CreateUser	Create new monitoring user:							
	 true 							
	 false 							
UserAdmin	User Admin data							
UserName	User name							
Password	Password							
InternalAuthentication	Domain Authorization							
DBARole	SYSDBA role:							
	 true 							
	■ false							
	*value provided for Oracle version only							
UserMonitoringTablespace	Monitoring user Tablespace							
	*value provided for Oracle version only							
UserMonitoringTempTablespace	Monitoring user Temp Tablespace *value provided for Oracle version only							
UserMonitoringProfile	Monitoring user Profile *value provided for Oracle version only							

Scenario for adding a Oracle instance with creating a monitoring user. Example [xml] input data:

<Root>

```
<Action>insert</Action>
<HostName>192.168.1.120</HostName>
<ConnectionType>basic</ConnectionType>
<TCPPort>1522</TCPPort>
<Sid>TERRAN</Sid>
<CreateUser>true</CreateUser>
<UserMonitoring>
    <UserName>DBMON</UserName>
    <Password>pass</Password>
</UserMonitoring>
<UserAdmin>
    <InternalAuthentication>false</InternalAuthentication>
    <UserName>sys</UserName>
    <Password>syspasss</Password>
    <DBARole>true</DBARole>
</UserAdmin>
 <UseMonitoringUserOnly>false</UseMonitoringUserOnly>
 <UserMonitoringTablespace>USERS</UserMonitoringTablespace>
<UserMonitoringProfile>DEFAULT</UserMonitoringProfile>
 <UserMonitoringTempTablespace>TEMP</UserMonitoringTempTablespace>
</Root>
```

Example [xml] output data:

```
<Root>

<Action>insert</Action>

<Response>

<Status>OK</Status>

<Message />

</Response>

<ServerId>1</ServerId>

<HostName>192.168.1.120</HostName>
```



```
<TCPPort>1522</TCPPort>
<UserAdmin>
   <InternalAuthentication>false</InternalAuthentication>
   <UserName>sys</UserName>
    <Password>syspass</Password>
    <DBARole>true</DBARole>
</UserAdmin>
<CreateUser>true</CreateUser>
<UserMonitoring>
    <InternalAuthentication>true</InternalAuthentication>
    <UserName>DBMON</UserName>
    <Password>pass</Password>
   <DBARole>false</DBARole>
</UserMonitoring>
<Sid>TERRAN</Sid>
<ConnectionType>basic</ConnectionType>
<UseMonitoringUserOnly>false</UseMonitoringUserOnly>
<UserMonitoringProfile>DEFAULT</UserMonitoringProfile>
<UserMonitoringTablespace>USERS</UserMonitoringTablespace>
<UserMonitoringTempTablespace>TEMP</UserMonitoringTempTablespace>
```

```
</Root>
```

Scenario for adding a Oracle instance with existing monitoring user. Example [xml] input data:

<Root>

```
<Action>insert</Action>
<HostName>192.168.1.120</HostName>
<ConnectionType>basic</ConnectionType>
<TCPPort>1522</TCPPort>
<Sid>TERRAN</Sid>
<CreateUser>false</CreateUser>
<UserMonitoring>
<UserName>DB_MON</UserName>
<Password>pass</Password>
</UserMonitoring>
<UseMonitoring>
<UseMonitoringUserOnly>true</UseMonitoringUserOnly>
</Root>
```

Scenario for adding a Oracle instance with existing monitoring user with TNS connection type. Example [xml] input data:

```
<Root>

<Action>insert</Action>

<ConnectionType>TNS</ConnectionType>

<Sid>TERRAN</Sid>

<CreateUser>false</CreateUser>

<UserMonitoring>

<UserName>DB_MON</UserName>

<Password>pass</Password>

</UserMonitoring>

<UserMonitoringUserOnly>true</UseMonitoringUserOnly>

</Root>
```

Scenario of removing an instance from monitoring. Example [xml] input data: <Root>



<Action>delete</Action> <ServerId>21</ServerId> </Root>

Example [xml] output data:

```
<Root>

<Action>delete</Action>

<Response>

<Status>OK</Status>

<Message />

</Response>

<ServerId>21</ServerId>

<TCPPort>0</TCPPort>

<CreateUser>false</CreateUser>

<UseMonitoringUserOnly>false</UseMonitoringUserOnly>

</Root>
```

2 Adding additional information to the query statistics

In the latest version of the application, we have added additional information to the query statistics, including the name of the action that was performed during the first analysis of the SQL statement by the Oracle engine for a given query. This information makes it possible to better identify the source from the query comes. No information in the Action column means that there is no such information stored in the Oracle system view. This data is visible on the SQL Details - Query Details screen.

III Database Load Weits Latches SQL Analyze SQL Details SQL Plan Load Trends Compare Top SQL SQL 3D Top Day Slow SQLs Perf Counters OS Stat

						iop dae da	100 00	olon outo								
580028164	580028164 From 2021/12/23 00:00 00 20 2021/12/23 23:59 23:59 2:50 2:50 2:50 2:50 2:50 2:50 2:50 2:50															
STATEMENT TEXT												١	liew Session Histor	ry ≡ Print Previe	w Q Format SQ	L
<pre>select count(KO) :"SYS_B_09", (de MAX(decode(inst: modul from oso_g m.fir_kod(+) = decode()</pre>	eelect count(NODP),:"SYS_00",:"SYS00",:"SYS00",:"SYS00",:"SYS00",:"SYS00",:"SYS00",:"SYS00",:"SYS00",:"SYS00",:"SYS00",:"SYS00",:"SYS00"															
SQL STATISTICS (SC	QL ID: 53h5b5wj	95184)											Grid	view: Genera	I statistics 👻	¢
Date	Plan hash	Elapsed Time	Cpu Time	Rows processed	Fetches	Executions	Parse Calls	Disk Reads	Disk Reads	Buffers Get	Buffer Quality	Module	Action 👻	Outline category	Elapsed Time per 1 Exec	
		[Seconds]	[Seconds]	[Rows]	[Rows]			[Blocks]	[M8]	[Blocks]	[%]				[Seconds]	
2021-12-23 00:06:47	3762876582	4.1	2.6	41	41	41	41	0	(94 345	100.0	wmsMngmDesk	sam.exe		0.1006	^
2021-12-23 00:21:59	3762876582	0.8	0.5	9	9	9	9	0	(6 469	100.0	wmsMngmDesk	sam.exe		0.0932	
2021-12-23 00:37:13	3762876582	1.5	1.0	14	14	14	14	0	(42 538	100.0	wmsMngmDesk	sam.exe		0.1071	
2021-12-23 00:52:27	3762876582	2.5	1.6	27	27	27	27	0	(39 335	100.0	wmsMngmDesk	sam.exe		0.0932	
2021-12-23 01:07:41	3762876582	5.8	3.7	64	64	64	64	0	(68 002	100.0	wmsMngmDesk	sam.exe		0.0912	
2021-12-23 01:22:55	3762876582	3.3	2.1	44	44	44	44	0	(44 910	100.0	wmsMngmDesk	sam.exe		0.0757	

Information about the *action* has also been added in the Sessions screen and in the session history.

III Set	ssions S	Sort usa	ge sessio	ons Undo usa	ige sessions	Sessions history	Session / Sort	/ Undo history										
🗹 Act	ive sessions	🗹 Use	rs only I	Min elapsed time:		sec. Sid:							Hash value/Sq	I Id:	Usernam	e:	🗹 upper ca	se Refresh
										Show additional	filters							
SELEC	T SESSION (LAST RE		D: 12:28:27) Kil	I session												_	\$
Logo	on time	Sid	Serial	Hash Value	Username	Status	Elapsed Time	Schema	OS user	Process (server)	Process (client)	Machine	Program	Module	Client info	Action -	Wait	Blocking
							[Seconds]											session
2021-12	23 11:22:41	44678	39623	252746603	RKOLOWAC	ACTIVE	6		oracle	8851624	31701	forms	frmweb@form	SAFO2000	USER:023418	to_to	b file sequential read	<u>^</u>
2021-12-	23 09:40:40	31499	23871	3542489552	MKAPCIAK_I	ACTIVE	10		oracle	31201196	8112	forms	frmweb@form	SAFO2000	USER:002336	to_to	atch: cache buffers	
2021-12-	-23 11:50:42	15416	27787	478515093	OSB	ACTIVE	6	INTER	oracle	14161638	1234	osb02prod	JDBC Thin Cli	SAFO2000		osb_customers	atch: object queue h	
2021-12	23 12:12:41	30058	5333		RBAKMIT3_IN	ACTIVE	101	INTER	oracle	7869328	21485	forms	frmweb@form	SAFOJERP	USER:044433	kh_kh_ms	CP Socket (KGAS)	
2021-12	23 11:55:20	17472	52835	2113529026	MBEDNARC_I	ACTIVE	1 961	WDR_IC	oracle	57805044	19482	forms	frmweb@form	SAFO200	USER:013202	ZES: ID=370	b file sequential read	
2021-12-	23 12:25:29	35476	21245	1247961294	WKORNILU_I	ACTIVE	138	WKORNILU_I	oracle	8588662	24570	forms	frmweb@form	SAFO200	USER:021877	ZES: ID=248	b file sequential read	

3 Improvements to the lock screen

The presentation of locks on **the Locks** screen at the Oracle database detail level has been improved in the latest version of the application. The change concerns the mechanism of indicating the session causing the lock. In a situation where one session made changes to many objects (tables) in the database and at the same time was blocked by other sessions, there were scenarios where the list of blocked sessions shows twice. The problem has been corrected in the latest version.



Another change concerns the additional marking in the "tree" which sessions cause blockades (BLOCKERS), and which ones are blocked (WAITERS). The change will make it easier to determine the cause of the lock problem for a given instance.

List of locked sessions at snapshot time: 2021/12/22 16:58:37
BLOCKER SID: 45756 Serial#; 7643 Session status: INACTIVE Lock Type: TM (DML enqueue lock) BLOCK time (sec.): 2481 User Name: MKARPIN2_INTER (Os User: oracle) Machine: forms Module: SAFO2000
BLOCKER SID: 37878 Serial#: 16877 Session status: INACTIVE Lock Type: TX (Transaction enqueue lock) BLOCK time (sec.): 1820 User Name: LWIKTORS_INTER (OS User: oracle) Machine: forms Module: KH_KH_MS
* BLOCKER WAITER SID: 55665 Serial#, 27281 Session status: ACTIVE Lock Type: TX (Transaction enqueue lock) WAIT time (sec.): 1698 User Name: INTER (Os User: Iis_user) Machine: WORKGROUP/PROD-IGO-03 Module: w3wp.exe
A WAITER SID: 19755 Serial#: 11749 Session status: ACTIVE Lock Type: TX (transaction enqueue lock) WAIT time (sec.): 24 User Name: INTER (Os User: iis_user) Machine: WORKGROUP/PROD-IGO-02 Module: w3wp.exe
WAITER SID: 13699 Serial#: 18819 Session status: ACTIVE Lock Type: TX (Transaction enqueue lock) WAIT time (sec.): 974 User Name: INTER (Os User: iis_user) Machine: WORKGROUP/PROD-IGO-04 Module: w3wp.exe
WAITER SID: 17469 Serial#; 48683 Session status: ACTIVE Lock Type: TX (Transaction enqueue lock) WAIT time (sec.): 1485 User Name: INTER (Os User: iis_user) Machine: WORKGROUPIPROD-IGO-02 Module: w3wp.exe
SQL STATEMENT FOR SESSION SID: 556665
UPDATE KH SET ASY = :B2 WHERE KOD = :B1

An additional change is adding information about the number of blocked sessions. After selecting a given blocking session, information on the number of blocked sessions will be displayed in the details.

List of locked sessions at snapshot time: 2021/12/22 16:50:06										
BLOCKER SID: 45756 Serial#: 76	BLOCKER SID: 45756 Serial# 7643 Session status: INACTIVE Lock Type: TM (DML enqueue lock) BLOCK lime (sec.): 1970 User Name: MKARPI(Os User: oracle) Machine: forms Module: SAF02000									
WAITER SID: 24840 Serial# 12657 Session status: ACTIVE Lock Type: TM (DML enqueue lock) WAIT time (sec.): 263 User Name: KROZY(Os User: oracle) Machine: forms Module: KH										
WAITER SID: 49777 Sesiion status: ACTIVE Lock Type: TM (DML enqueue lock) WAIT time (sec.): 433 User Name: AMUSZY(OS User: oracle) Machine: forms Module: SAFO20										
WAITER SID: 10785 Serial#: 11131 Session status: ACTIVE Lock Type: TM (DML enqueue lock) WAIT time (sec.): 34 User Name: KWOLUJ (Os User: radio) Machine: mtermit08 Module: Sledzenie										
WAITER SID. 28933 Serially: 23073 Session status: ACTIVE Lock Type: TM (DML enqueue lock) WAIT time (sec.): 569 User Name: NKOCZ (Os User radio) Machine: mtermit08 Module: Stedzenie										
WAITER SID: 40942 Serial#: 22245 Session status: ACTIVE Lock Type: TM (DML enqueue lock) WAIT time (sec.): 322 User Name: ASZRAM(Os User: radio) Machine: mtermit07 Module: Stedzenie										
WAITER SID: 6327 Serial#: 733	WAITER SID: 6327 Serial#, 7337 Session status: ACTIVE Lock Type: TM (DML enqueue lock) WAIT time (sec.): 1772 User Name: KPANKIE (Os User: radio) Machine: mtermitól Module: Sledzenie									
SQL STATEMENT FOR SESSION SUD: 45756										
SESSION DETAILS		LOCK DETAILS								
Number of blocked sessions Request	88	Description: A high level of this event indicates that there are restrictions on unindexed foreign keys. This happens when a dependent or child								
Sid	Bid 45756 constraint that references a parent table is missing an index on the associated key. Oracle acquires a table lock on modifications on the primary key column in the parent table that's referenced by the foreign key of the child table. Lock/type TM Solution*									
LockType										
LockTypeDescription	(DML enqueue lock)	You need to create an index in the child table performing on the column that references the parent table								
ID1	6993083	Create the missing indexes with the script below to solve the eng: TM – contention wait problem:								
ID2	0									

Another change is related to the description of the lock type for the session. The description appears in the new Lock Details section after clicking on a row on the lock screen.

List of locked sessions at snapshot time: 2021/12/23 02:59:24									
* BLOCKER SID 29935 Serially 26575 Session status: ACTIVE Lock Type: TX (Transaction enqueue lock) BLOCK time (soc.): 34 User Name, HZAJO (Os User, oracle) Machine: g5scuti Module: WMS4PLC_TOTEHZA									
WAITER SID; 31123 Serial#: 7913 Session status; ACTIVE Lock Type: TX (Transaction enqueue lock) V/AIT time (sec.): 13 User Name: MMELNY(Os User: radio) Machine: intermit04 Module: Zbiorka List Kompletacyjmych - 35N1									
WAITER SID: 66064 Serial#: 6509 Session status: ACTIVE Lock Type: TX (Transaction enqueue lock) (WAIT time (soc.): 4 User Name. JGATACIL(Os User: radio) Machine: mtermit03 Module: Zbiorka List Kompletacyjnych - 35N1									
WAITER SID: 9124 Serial#: 16973	Session status: ACTIVE Lock Type: TX (Transaction enqueue lock) WAIT time (sec.): 2 User Name: VLUTSY(Os	User: radio) Machine: mtermit01 Module: Zbiorka List Kompletacyjnych - 0UX2							
WAITER SID: 37547 Serial# 14963 Session status: ACTIVE Lock Type: TX (Transaction enqueue lock) WAIT time (sec.): 11 User Name: MCOTOFA (0s User: radio) Machine: mtermit08 Module: Zbiorka List Kompletacyjnych - 0UX2									
WAITER SID: 24331 Serial#: 18993 Session status: ACTIVE Lock Type: TX (Transaction enqueue lock) WAIT time (sec.): 13 User Name: ALORENZ (Os User: radio) Machine: intermittel'i Module: Zbiorka List Kompletacyjnych - 2M1									
WAITER SID: 5227 Serial#: 7521 S	Session status: ACTIVE Lock Type: TX (Transaction enqueue lock) WAIT time (sec.): 3 User Name: OZADNIPI(Os	User: radio) Machine: mtermit04 Module: Zbiorka List Kompletacyjnych - 3Q1							
SQL STATEMENT FOR SESSION SID: 29									
select big_str_w.war from big_str_w. Kh_big_str_w.where big_str_w.big_str_w.big_str_w.big_str_l_str_id = :"SYS_B_0" and big_str_w.big_str_l.kod = :"SYS_B_1" and Kh_big_str_w.Kh_ko= :"SYS_B_2"									
SESSION DETAILS	SESSON DETAILS LOCK DETAILS								
Number of blocked sessions	13	Lock Type:							
Request	0	тх							
Sid	29935 🕂	Lock Name: Transaction							
LockType	тх	Description:							
LockTypeDescription	(Transaction enqueue lock) ATX lock (also called a row lock), is a lock on a single row of table. A transaction acquires a row lock for each row modified by an INSERT, U								
ID1	626458655	DELETE, MERGE, or SELECT FOR UPDATE statement. Row locks primarily serve as a queuing mechanism to prevent two transactions from modifying the same row. The database always locks a modified row in exclusive mode so that other transactions cannot modify the row until the							
ID2	913363	transaction holding the lock commits or rolls back.							
Lmode	6								

4 Monitoring of expiring access

In the latest version of the application, we have added a new report that contains information about the status of database users in the monitored database. The report is available from the level of details of a given database in the *Reports> DB Login Expiry menu*.

Before executing the report, the user can complete available filters, such as:

Username

Lmode

- Account Status
- Lock date
- Expiry date



Tablespace

Information on the status of accounts after the DBPLUS application is displayed on the screen can be saved in the form of a * .docx file (after clicking the Print button) or in the * .csv format after clicking Export grid from the level of the table with the results.

	_											
Sack to dashboard	B DB Login Expiry report											
A Performance	SPECIFIC FRICES											
	Username: Account Status: Lock date: Expiry date: Tablespace:											
 Plan Explorer 	All statures - C = 2021/12/01 to = 2022/01/23 to = 2022/01/23 to = USERS - Print Run Report											
Anomaly monitor												
I/O State	Show additional filters											
in no otata	REPORT RESULTS FOR DATABASE: T8											
Space monitor	Username	Account Status -	Lock date	Expiry date	Created date	Default Tablespace						
E Memory	PUBLIC_USER	EXPIRED & LOCKED	2013-10-01 22:55:42	2013-10-01 22:55:42	2013-10-01 22:35:31	USERS						
	DIP	EXPIRED & LOCKED	2013-10-01 21:32:06	2013-10-01 21:32:06	2013-10-01 21:32:06	USERS						
Sessions	MDDATA	EXPIRED & LOCKED	2013-10-01 22:55:42	2013-10-01 22:55:42	2013-10-01 22:20:43	USERS						
🔠 Backups	ORACLE_OCM	EXPIRED & LOCKED	2013-10-01 21:33:36	2013-10-01 21:33:36	2013-10-01 21:33:36	USERS						
A Locks	SCOTT	EXPIRED & LOCKED	2015-08-06 22:41:04	2015-08-06 22:41:04	2013-10-01 22:57:11	USERS						
-	SPATIAL_CSW_ADMIN_USR	EXPIRED & LOCKED	2013-10-01 22:27:23	2013-10-01 22:27:23	2013-10-01 22:27:23	USERS						
Parameters	SPATIAL_WFS_ADMIN_USR	EXPIRED & LOCKED	2013-10-01 22:27:11	2013-10-01 22:27:11	2013-10-01 22:27:11	USERS						
① Logs	XS\$NULL	EXPIRED & LOCKED	2013-10-01 22:09:41	2013-10-01 22:09:41	2013-10-01 22:09:41	USERS						
C Reports	ACZYZNICK	LOCKED	2019-11-18 16:04:53		2015-08-07 10:05:27	USERS						
- Performance report	ADZIUB1NDO	LOCKED	2019-11-18 16:04:53		2015-08-07 10:05:27	USERS						
 Not used indexes 	AGOR	LOCKED	2018-04-04 11:03:52		2015-08-07 10:05:27	USERS						
Top heavy queries	ALEWA	LOCKED	2018-04-04 11:05:53		2015-08-07 10:05:27	USERS						
oo coyiir capity	BISP_TEST	LOCKED	2018-04-04 11:05:53		2015-08-07 10:05:37	USERS						
Version: 2021.4.1	BJEND	LOCKED	2018-04-04 11:05:53		2016-01-13 15:54:50	USERS						
	-											

Status data is not saved in the DPBLUS repository database. Running the report is performed online directly on the monitored database.

Notice! If the Security authorization option is enabled in a given application, the report will not be visible in the menu by default. In order to activate the report option, you must additionally select such option in the Security menu.

	PROD_ADMIN_ALL_D	BS	PROFILE	Own	m	Object Type PROFILE +		
Configuration	V_CASEM_VIEW		PROFILE	Own	m			
Databases	V_DW_VIEW		PROFILE	Own	IIII	Permissions Type Use own permissions +		
References li	V_GARNA_VIEW		PROFILE	Own	m			
- Security	V_HELPDESK_VIEW		PROFILE	Own	m	Functions ngnts Databases access	Un Select All Sele	ect All
Alert settings	V_ICSP_VIEW		PROFILE	Own	m	Q Default object privileges to functions for All databases		
Timeline setti	V_OEBS_VIEW		PROFILE	Own	m	21/0 Stats		•
0.00000000000	V_SAFO_VIEW		PROFILE	Own	m			
C Help	V_TETAKAD_VIEW		PROFILE	Own	面	Sessions Sessions		
Version: 2021-8-1 SQL Server Legin TOABOOUSZE						Civili sessions Cisession Resources Cibackups Civili sessions Civili s	4	
							Save object Ca	incel

5 Bug fixes and improvements

5.1. Fixed a bug related to IIS at the Configuration Wizard level

In the latest version of the application, we have corrected the problem related to displaying the IIS error at the Configuration Wizard level. The issue was with the message: *"The underlying connection was closed: An unexpected error occurred on a receive."*. The problem has been fixed, the message should not appear in the latest version.

5.2. Redundant entries in Outline, BaseLine and Profiles history

In the new version of the application, we have improved the mechanism of saving changes related to Outline, Baseline and Profiles objects to the DBPLUS repository. In previous versions, in some databases, there was a scenario of adding redundant rows to the revision history for a given object. In the latest version, we have improved the mechanism of saving changes to the above objects.

5.3. Marking the columns used in the query

In the latest version, we have added a function that allows faster query performance analysis on the Show Plan Objects screen. The change consists in additional marking the columns used in the query in the grid. The change is visible on the screen in the form of an additional column Used in query, which is displayed after the Parse SQL Query operation is performed.



SQL TEXT (HA SH VALUE: 848242916) Objects Explorer Parse SQL C						Parse SQL Query 🗸	٩	EXPLAIN PLAN (PLAN HASH: 163230531	5)		X Close Plan Objects		
UTGAZE MS.departments SET department_mame-'III'							-OVERT ER OUTRAIT STAIDEDT (Come - 5 , Spres - 5 , Candinality - 3 , Search Columns - 5) OUTRAIT ERRATIONTS LTABLE ACCESS (FULL) DEFAURTMENTS (Come - 5 , Spres - 524 , Candinality - 57 , Search Columns - 6)						
OBJECTS USED IN E	EXPLAIN PL/	NN							INDEXES FOR SELECTED OBJECT HR.DEPARTMENTS				
	Туре			Owner		Object Name			Ow	ner	Name		
TABLE			HR		DEPARTME	NTS			HR	IR DEPT_ID_PK			
							HR DEPT_LOCATION_IX						
Object columns	Query ad	Details for TABLE HR DEPARTMENTS											
Q, Search by column name													
Used In Query •		Column -		Туре	Length		Column Id		Unique values	Density	Last analyzed	Sample size	
		DEPARTMENT_ID		NUMBER	2	2		1	2	0.03703704	4 2021-12-16 09:14:46	27	
		DEPARTMENT_NA	ME	VARCHAR2	3	0		2		1.0000000	0 2021-12-16 09:14:46	27	
		LOCATION_ID		NUMBER	2	2		4	1	0.14285714	4 2021-12-16 09:14:46	27	
		MANAGER_ID		NUMBER	2	2		3	1	0.09090909	9 2021-12-16 09:14:46	11	