

Replication Status Form and Functionality

01/10/2024 1:37 pm EST

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Purpose

The Replication Status Form in the Supervisor Workstation>Tools is used to monitor the status of replication on the Manitou system.

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Options

The following range of OptionNo in the MOption table is used for replication status monitoring.

- mOptSERVER1 = 1100
- mOptSERVER2 = 1101
- mOptREPSTATUS = 1102
- mOptREPGEN = 1103
- mOptREPDIST = 1108
- mOptREPLICAS = 1109
- mOptDBSERVER1 = 1110 - 1119
- mOptDBSTATUS1 = 1120 - 1129
- mOptDBTYPE1 = 1130 - 1139

The Broker will automatically add some options, others will need to be manually updated via MSSQL Manager by doing a table edit or a query on the MOPTIONS table. Options that need to be manually added are listed in the chart below.

				REPLICATION
1100	SERVER1	VARCHAR	15	Manitou Broker machine name (set by Brkr) Last Broker to use this DB - proper shutdown should set to empty
1101	SERVER2	VARCHAR	15	Primary DB server <u>name</u> - Needs to be manually input to the database
1102	REPSTATUS	SMALLINT		Replication Status (set by DB Mgr) -1 = Unknown 0 = Okay 1 = Dirty (replication rebuild in process)
1103	REPGEN	SMALLINT		Replication Generation Number (DB Mgr - increment upon configuration/status change)
1107	REPTST	SMALLINT		Replication Test Field - Write to Primary, validate success at each Secondary (Broker use)
1108	REPDIST	VARCHAR	15	Machine name of replication distributor - Needs to be manually input into the database
1109	REPLICAS	SMALLINT		Number of replication instances configured (0-10)
1110	DBSERVER1	VARCHAR	15	Machine name - Needs to be manually input into the database
1111	DBSERVER2	VARCHAR	15	Machine name- Needs to be manually input into the database
1112	DBSERVER3	VARCHAR	15	Machine name- Needs to be manually input into the database
1113	DBSERVER4	VARCHAR	15	Machine name- Needs to be manually input into the database
1114	DBSERVER5	VARCHAR	15	Machine name- Needs to be manually input into the database
1115	DBSERVER6	VARCHAR	15	Machine name- Needs to be manually input into the database
1116	DBSERVER7	VARCHAR	15	Machine name- Needs to be manually input into the database
1117	DBSERVER8	VARCHAR	15	Machine name- Needs to be manually input into the database
1118	DBSERVER9	VARCHAR	15	Machine name- Needs to be manually input into the database
1119	DBSERVER10	VARCHAR	15	Machine name- Needs to be manually input into the database

1120	DBSTATUS1	SMALLINT			Replication status (set by DB <u>Mgr</u>) -1 = Unknown 0 = Okay 1 = Dirty 2 = Off-Line/Failed
1121	DBSTATUS2	SMALLINT			Replication status (-1,0,1,2)
1122	DBSTATUS3	SMALLINT			Replication status (-1,0,1,2)
1123	DBSTATUS4	SMALLINT			Replication status (-1,0,1,2)
1124	DBSTATUS5	SMALLINT			Replication status (-1,0,1,2)
1125	DBSTATUS6	SMALLINT			Replication status (-1,0,1,2)
1126	DBSTATUS7	SMALLINT			Replication status (-1,0,1,2)
1127	DBSTATUS8	SMALLINT			Replication status (-1,0,1,2)
1128	DBSTATUS9	SMALLINT			Replication status (-1,0,1,2)
1129	DBSTATUS10	SMALLINT			Replication status (-1,0,1,2)
1130	DBTYPE1	SMALLINT			Database type 0 = Normal (Primary/Secondary) 1 = DR Center (1+ DB <u>Mgr</u> defined) 2 = Reporting **Needs to be manually input into the database if type is other than 0
1131	DBTYPE2	SMALLINT			Database type (<u>0,1,...</u>)
1132	DBTYPE3	SMALLINT			Database type (<u>0,1,...</u>)
1133	DBTYPE4	SMALLINT			Database type (<u>0,1,...</u>)
1134	DBTYPE5	SMALLINT			Database type (<u>0,1,...</u>)
1135	DBTYPE6	SMALLINT			Database type (<u>0,1,...</u>)
1136	DBTYPE7	SMALLINT			Database type (<u>0,1,...</u>)
1137	DBTYPE8	SMALLINT			Database type (<u>0,1,...</u>)
1138	DBTYPE9	SMALLINT			Database type (<u>0,1,...</u>)
1139	DBTYPE10	SMALLINT			Database type (<u>0,1,...</u>)

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Form Use and Functions

Users may use this form to monitor their replication status in addition to the Database Manager. Since the Supervisor Workstation is often more on user individual workstations whereas the Database Manager is not, this tool can be useful. After the initial values are manually added to the database they will automatically be updated by the Broker and Database Manager during any replication changes such as a switch from a Primary to a Standby database. The Broker will look for replication status approx every second and will update the values in the MOption table to the appropriate MOption Optno.

Supervisor Workstation - Manitou [Debug] 2.1.3.101

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Replication Status

Instance Name	DB Type	Rep Status	Primary	Average	Last
DEVLAB-WIN2016A	Normal	Okay	True		
DEVLAB-WIN2016B	Normal	Okay	False	6900	5079
DEVLAB-WIN2016C	Normal	Okay	False	9943	10203

Msg - F2 Notes - F3 Bl - F7

Counts: 1: 0 2: 1 3: 0 4: 0 5: 0 6: 0 7: 3 8: 0 9: 1 10: 0 Total: 5 <<

Suspended: 0 New: 3 Viewed: 1 Actioned: 1 Hidden: 0

Message: [10:35] - Alarm Progress Problem for 'System Alarm' of priority 21 ... 0 Clear

Current User: Bold Technologies (BOLD) 02/05/2023 10:29:34 Mountain Time (US & Canada)

Instance Name - Name of database in the replication

DB Types - Normal/DR Center/Reporting

Rep Status - Unknown/Okay/Dirty/Off-Line/Failed

Average - Average latency

Last - Last commit latency

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