**DataQuerySource extender**

*Starting from v2.15.102.247, 2.16.0.13*



**Application**

The extender allows receiving contents of broadcasting schedule or MDB items from external sources. It is possible to get the data in XML format via DataQuerySourceClient.exe command line tool or via System of Events. It is required that the System of Events is configured to handle external requests for the extender to work properly. [Configuring the System of Events in Digispot II applications](http://redmine.digispot.ru/projects/digispot/wiki/%D0%9D%D0%B0%D1%81%D1%82%D1%80%D0%BE%D0%B9%D0%BA%D0%B0_%D1%81%D0%B8%D1%81%D1%82%D0%B5%D0%BC%D1%8B_%D1%81%D0%BE%D0%B1%D1%8B%D1%82%D0%B8%D0%B9_%D0%B2_%D0%BF%D1%80%D0%B8%D0%BB%D0%BE%D0%B6%D0%B5%D0%BD%D0%B8%D1%8F%D1%85_%D0%94%D0%B8%D0%B3%D0%B8%D1%81%D0%BF%D0%BE%D1%82_II) . The communications protocol should be specified as XML (PROTOCOL="XML").

Data source for the formation of XML (can be broadcasting DJin or Planner):

<EVENT\_SERVER HOST="SERVER">

 <CLIENTS>

 <TCP ADDR="SERVER\_XML" TYPE="SERVER" IP="0.0.0.0" PORT="7777" PROTOCOL="XML"/>

 </CLIENTS>

</EVENT\_SERVER>

Data receiver for the formation of XML (workstation with DataQuerySource.dll installed):

<EVENT\_SERVER HOST="CLIENT">

 <CLIENTS>

 <TCP TYPE="CLIENT" IP="127.0.0.1" PORT="7777" PROTOCOL="XML"/>

 </CLIENTS>

</EVENT\_SERVER>



**Configuration**

Plug-in library file: DataQuerySource.dll, should be placed in the Extenders folder with access to required schedule and / or Data Base and with plug-in ID fixed as: *DataQuerySource*



**DataQuerySourceClient tool**

This tool allows accessing DataQuerySource and receiving results as XML data.
The tool must be installed on the workstation which is planned to receive data in XML format.
The parameters of the request are sent via command line and the results are returned as XML data to standard output stream.
Calling parameters for the tool are only displayed if run with no parameters.

Parameters: <Module name> <Address> <Command> [Arguments]

 Module name - module name of the data query plugin

 Address - address connection to server ([ip address]:[port])

 Command - command name

 Arguments - arguments to command (<Value name>,<Type>=<value>|"<value>"[ ]...

Known commands:

\* GET\_MDB\_ITEM\_INFO - gets MDB item with specified id

 id - Db id of MDB item, Int32, ex: 1234

\* GET\_SCHEDULE\_CONTENT - gets scheule content

 sch\_folder\_name - name of schedule, as in Global settings, string

 sch\_folder\_path - path to schedule, as in Global settings, string

 date - schedule date, string, yyyy-mm-dd

In versions starting from 2.16.76 and 2.17.0.121 – 2 parameters are added: **/u**, **/timeout**

Optional switches:

 /u - turn output encoding to UTF-8, to avoid output character conversion,

 /timeout=xxx - set reply timeout, where xxx is integer timeout value, seconds (socket will closed)

In the examples shown below DataQuerySourceClient.exe accesses DataQuerySource, which is part of the local running application (as it accesses via 127.0.0.1 address) that uses the 7777 port for exchanging events in XML format.

Here is an example of received information about an MDB item with ID number 1.

DataQuerySourceClient.exe DataQuerySource 127.0.0.1:7777 GET\_MDB\_ITEM\_INFO id,Int32=1

Here is an example of received Default schedule for January, 30, 2013.

DataQuerySourceClient.exe DataQuerySource 127.0.0.1:7777 GET\_SCHEDULE\_CONTENT sch\_folder\_name=Default date=2013-01-30