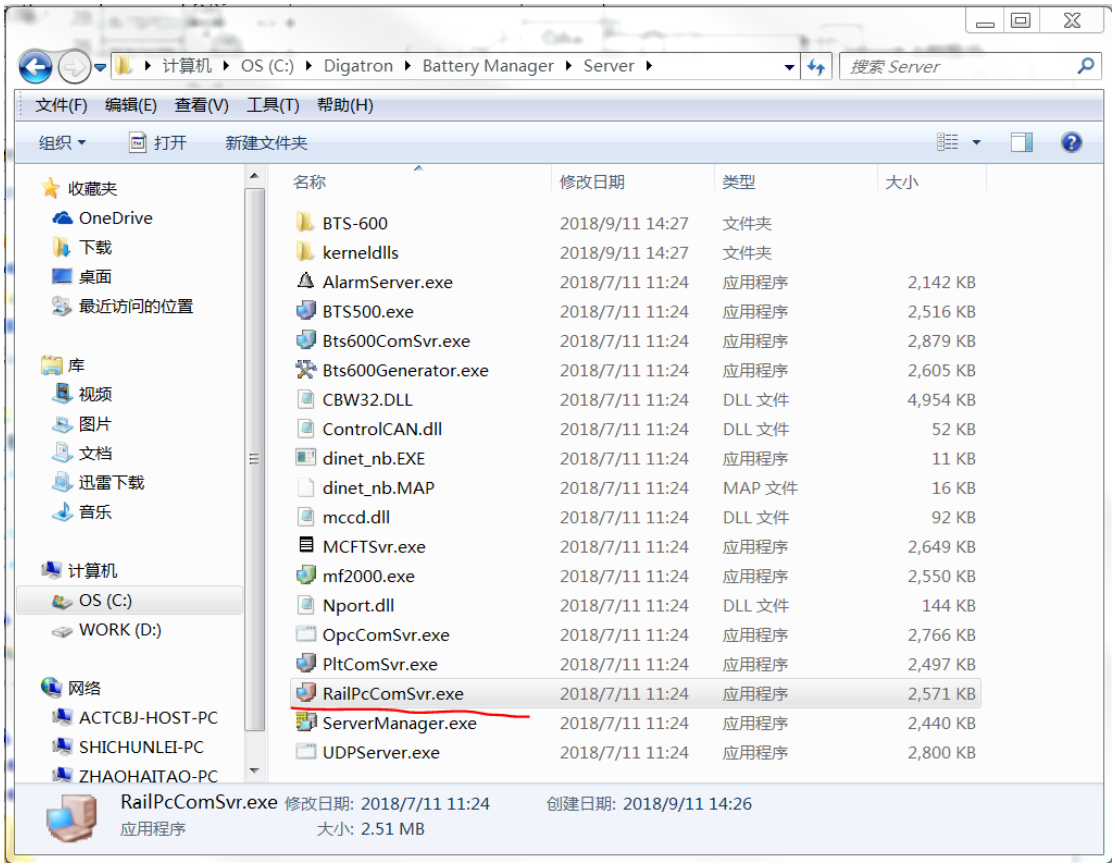
迪卡龙 BM 软件 OPC 通讯口的使用

1. OPC 是 OLE 工业过程规范的简称，迪卡龙系统提供标准的 OPC 通讯服务功能，用户可通过外部控制器对设备进行控制和读取设备运行数据。
2. 使用方法是运行可执行程序 RailPcComSvr.exe，通过本程序调用用户自己编辑的 OPC 协议文件完成 OPC 端口的收发功能。RailPcComSvr.exe 文件所在位置为 BM 软件安装目录的 Server 文件夹下。如下图



3. 用户 OPC 通讯协议的文件由用户自己按需求编制，文档须命名为"RailPcComSvr.Custon.ini"，本文件被 RailPcComSvr.exe 程序默认调用，用户无需干预，如下图文档说明

Appendix A Definitions and Abbreviations

Term / Abbreviation	Explanation
BM	Battery Manager
OPC	OLE for Process Control
OPC client	A computer program reading and writing data from/to an OPC server
OPC server	A server providing the possibility to exchange plant data between control devices from different manufacturers

Appendix B OPC Configuration

The configuration of the BM *OPC Client* is done in the respective CommServer configuration files (e.g. "RailPcComSvr.custom.ini").

Within the INI file the following three sections are of importance:

- OPC
- OPCGroups
- OPCValues

Appendix B.1 Section OPC

The following code shows the default settings for the configuration section "OPC". Normally only the keys *HostName* and *ServerName* must be adjusted.

```
[OPC]
;local server=empty
;remote server=192.168.0.72
HostName=192.168.9.1
```

```
[OPCGroups]
// UpdateRate < 100 -> seconds >= 100 -> milliseconds
GroupName_1=Status
GroupAsync_1=1
GroupUpdateRate_1=5

GroupName_2=Program
GroupAsync_2=1
GroupUpdateRate_2=1200000

GroupName_3=Command
GroupAsync_3=1
GroupUpdateRate_3=1000

GroupName_4=Puls
GroupAsync_4=1
GroupUpdateRate_4=300

GroupName_5=Battery
GroupAsync_5=1
GroupUpdateRate_5=1100000
```

Appendix B.3 Section OPCValues

In the following example only FullStatusEx is activated. The remaining parts are only for reference.

The keys must be enumerated consecutively! Start with "_1" and increment by one for each new group name. Otherwise the system will react with unpredictable results!

```
[OPCValues]
Value_1="PLC1.Application.PLC_PRG.F_Status"
ValueType_1=AI2
ValueFlow_1=write
ValueMap_1=FullStatusEx
ValueArrayLowBound_1=1
ValueArrayHighBound_1=204
ValueGroupName_1=Status

Value_3="PLC1.Application.PLC_PRG.F_Command3"
ValueType_3=AS
ValueFlow_3=read
ValueMap_3=Command3
ValueGroupName_3=Command

Value_4="PLC1.Application.PLC_PRG.F_CmdReplyI"
ValueType_4=AI2
ValueFlow_4=write
ValueMap_4=CommandExecutionReply
ValueArrayLowBound_4=1
ValueArrayHighBound_4=204
ValueGroupName_4=Status

;OPC name in flat mode e.g. like "Formation.Chambre3.Temperature1.Real8"
;type of value: allowed R4,R8,I1,I2,I4,S and Array version AR8,AI4,AS
;An A in front of type means ARRAY of type e.g. AR4 is an ARRAY of Real4
;direction of data transfer: allowed read, write
;read means FROM OPC server
```

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4. 用户自主编辑的 OPC 通讯协议文档的格式和协议内容要求，详见《OPC_Interface_Prog_Manual_4.11.PDF》，本文档或随设备提供或单独向迪

卡龙公司索取。

5. 设备正常使用中，如无集成上层系统（如 PLC 或 MES 系统）的需求，不建议用户自行使用 OPC 通讯功能，对该功能的使用和调试应由具有集成能力的第三方实施，或咨询迪卡龙公司。