ReadMe TDD-Tool

Disclaimer:

The WV-File is some German format we use in different processes, but it contains all the information needed for the TDD-Tool. As the decision to share the tool was made was rather late, we have to stick to this file format for the march data delivery. To make it as easy as possible we hide all columns in the example and template which are not necessary to be filled in. In a future release of the TDD-Tool we could include different ways of importing of the data.

General Information

The filename needs to have the following naming scheme: WV_TSO_YYYY_MM_YYYYMMDDHHMM

Please replace:

- TSO: Your TSO Name
- YYYY: Year
- MM: Month
- DD: Day
- HH: Hour
- MM: Minutes

How to fill in the WV-File

The WV-File can be used to create an XML file which contains the Use Cases 1 – 5. First I will describe which columns have to be filled with what to create the different kind of ORAs. After that I give a brief explanation of all the column you can find in the WV-File.

The different use cases can be filled in as followed:

- Case 1 - **Redispatch** ORA from ROSC
    - Column F: "Redispatch"
    - Column I: "I"
    - Column J: "PRD" (DACF)"

- Case 2 - **Countertrade** ORA from ROSC
    - Column F: "Countertrade"
    - Column I: "I"
    - Column J: "PRD" (DACF)"

- Case 3 - **Redispatch** ORA from ROSC distributed on **2 or more different power units**
    - Column A to D: Need to be cover the same time period for all power units which are included in the ORA
    - Column F: "Redispatch"

- Column I: "I"
- Column J: "PRD" (DACF)"

- Case 4 - **Curative Redispatch** ORA which has materialized. The contingency is only mentioned for costly curative RA which have materialized.
  - Column F: "Redispatch"
  - Column H: "Markt-KW 13(1)"
  - Column I: "I"
  - Column J: "Intraday"

- Case 5 - **FAP replacement** of an ORA
  - For the power plant which will be replaced this has to be formulated similar as Case 1 or 2:
  - For generator
    - Column F: "Redispatch"
    - Column I: "I"
    - Column J: "PRD" (DACF)"
  - For Countertrade:
    - Column F: "Countertrade"
    - Column I: "I"
    - Column J: "PRD" (DACF)"
  - The power plant which will be the actual FAP Replacement will be defined as followed:
    - Column F: "Redispatch"
    - Column I: "I"
    - Column J: "FAP-Replacement"
  - All generators and countertrade measures involved in the FAP Replacement need to have the same identifier:
    - Column G: Same identifier for all involved generators and countertrade but otherwise unique

- Case 6 - **FAP activation requester pays**
  - Not implemented yet

Columns of the WV-File:

Column	Title	Description	Format
A	TM von	Start date of ORA	DD.MM.YYYY
B	TM bis	End date of ORA	DD.MM.YYYY
C	Zeit von	Start time of ORA. Start time needs to be in 15 min steps (:00, :15, :30 or :45)	hh:mm
D	Zeit bis	End time of ORA. End time needs to be in 15 min steps (:00, :15, :30 or :45)	hh:mm

F	GM-Art	"Redispatch" or "Countertrade"	Enum
G	Tages-TM-Ident	Unique identifier of the ORA. Needs to be the same for a FAP-Replacment	String
H	TM-Art	"Markt-KW 13(1)"	Enum
I	Ursache	"I"	Enum
J	Auslösender Prozess	"Intraday", "FAP-Replacement" or "PRD2 (DACF)"	Enum
M	Zuständiger RAS-ÜNB	TSO-Name	String
N	Aktivierungsobjekt	Name of the Generator	String
O	AO-Code	mRID of the generator or if translation table is used the lookup value can be used here	String
DP	TM-Richtung	"Quelle" if the Generator/Countertrade is a positive Redispatch (Source) or "Senke" if the Generator/Countertrade is a negative Redispatch (Sink)	Enum
EF-IA	Number 1 to 100	This represents the activated volume for each quarter hour. This means column EF (1) represents the hour 00:00 to 00:15 and so on. In CORE we only use hourly values the tool will correct this. For a constant redispatch of 5 MW in one hour one need to repeat 5 for all of the four quarterly hours. Positive redispatch will have number > 0 and negative redispatch numbers < 0. If there is no redispatch in an hour just leave the column empty. For days with 23 or 25 hours just fill in 92 or 100 timestamps. For 92 timestamps the last 8 columns need to be empty.	Double

IC-LX	Number 1 to 100	This represents the variable costs for each quarter hour. This means column IC (1) represents the hour 00:00 to 00:15 and so on. In CORE we only use hourly values the tool will correct this. All the costs of the four quarterly hours will be summed by the tool. Positive cost will have number > 0 and negative cost (refunds) will have numbers < 0. If there is no redispatch in an hour just leave the column empty. For no costs put 0. For days with 23 or 25 hours just fill in 92 or 100 timestamps. For 92 timestamps the last 8 columns need to be empty.	Double
LZ	Kosten für An- und Abfahrt [€]	Costs for startup and shutdown. Always positive numbers. Startup cost can only counted if Column DP == "Quelle" (Source) and Shutdown cost will only be counted if column DP == "Senke" (Sink)	Double
XT	Andere Kosten [€]	Other fix costs	Double