

How to	Configuration – Add a new Data Entry Group
Description	Step by step description of how extend the configuration with a new Data Entry Group
Comments	The <i>italic</i> phrases correspond to the red markings in the screenshots. Please be aware that the screenshots may deviate slightly from the application
version	2015-02



Overview of steps:

1. Update meta data with proper content of columns DATA_ENTRY, DATA_ENTRY_SEQ, DATA_ENTRY_PARAMS for the new data entry group
2. Copy file LocastionSets_de.xml and edit
 - a. Search and replace 'de.' with '<region>.'
 - b. Search and replace 'de2MDBC_OPS' with '<region>2MDBC_OPS'
 - c. Search and replace 'de2HYDRO' with '<region>2HYDRO'
 - d. Search and replace 'de2EWSRC_RO' with '<region>2EWSRC_RO'
 - e. For LocationSet Goolwa.sites change "**<attributeExists id="DATA_ENTRY_PARAMS"/>**" to **<attributeTextContains id=" DATA_ENTRY" contains="Goolwa">**</attributeTextContains>
 - f. (Un)comment parameter sections when a particular parameter is (not) available for this data entry group, but not for Menindee
3. Edit Filters_DataEntry.xml
 - a. Copy filter Menindee_DataEntry and update
 - b. Copy filters Menindee_DataEntry_<par> and update
 - c. Add filters <region>_DataEntry_<par> when missing compared to the locationSets. Make sure to use the right timeSeriesSetsId, and to add the id of the new filter to <region>_DataEntry under foreignKey
 - d. (Un)comment parameter sections when a particular parameter is (not) available for this data entry group, but not for Menindee
4. Copy file TopologyGroup_Menindee.xml and update
5. Edit file Topology.xml and update
6. Edit file DisplayGroups_opoDataEntry.xml
 - a. Copy DisplayGroup Menindee_OPO and update
 - b. (Un)comment parameter sections when a particular parameter is (not) available for this data entry group, but not for Menindee
7. Start application and review error messages on missing locationsets. Repeat step 2c, 3c and 6c to remove any errors.

This instruction uses XMLSpy. Relevant shortcuts:

Alt+V+G	Grid View
Alt+V+T	Text View
Ctrl+H	Search and Replace
Ctrl+K	Comment/Uncomment (when in text view)

Example when adding Dartmouth as new data entry group

Folder Config/MapLayerFiles

Ad. 1. Update ROWS_Locations.csv

Folder Config/RegionConfigFiles/DataEntry

Ad 2: Copy file LocationSets_de.xml → LocationSets_Dartmouth.xml

Open file LocationSets_Dartmouth.xml in XMLSpy

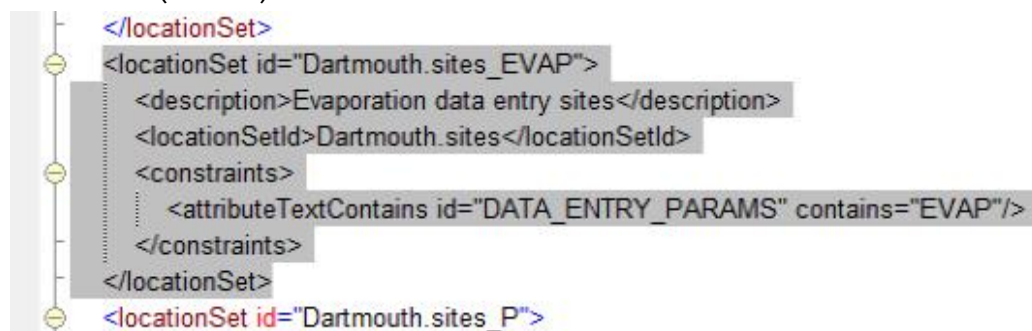
- (Ctrl+H) Search and replace all (case sensitive, including dot) 'de.' → 'Dartmouth.'
- (Ctrl+H) Search and replace all (case sensitive) 'de2MDBC OPS.' → 'Dartmouth2MDBC OPS.'
- Your data entry group may have less parameters than Menindee. Select the full block for this parameter to comment (Ctrl+K) when a particular parameter is not available for this data entry group, while it is available for Menindee

Select the block in Grid View




	= id	description	locationSetId	constraints
1	Dartmouth.sites	Data entry sites	sites	<input type="checkbox"/> constraints
2	Dartmouth.sites_EVAP	Evaporation data entry sites	Dartmouth.sites	<input checked="" type="checkbox"/> constraints
3	Dartmouth.sites_P	Precipitation data entry sites	Dartmouth.sites	<input checked="" type="checkbox"/> constraints

Go to Text View (Alt+V+T)



```
</locationSet>
<locationSet id="Dartmouth.sites_EVAP">
  <description>Evaporation data entry sites</description>
  <locationSetId>Dartmouth.sites</locationSetId>
  <constraints>
    <attributeTextContains id="DATA_ENTRY_PARAMS" contains="EVAP"/>
  </constraints>
</locationSet>
<locationSet id="Dartmouth.sites_P">
```

Comment (Ctrl +K)



```
</locationSet>
<!--<locationSet id="Dartmouth.sites_EVAP">
  <description>Evaporation data entry sites</description>
  <locationSetId>Dartmouth.sites</locationSetId>
  <constraints>
    <attributeTextContains id="DATA_ENTRY_PARAMS" contains="EVAP"/>
  </constraints>
</locationSet-->
<locationSet id="Dartmouth.sites_P">
```

Back to grid view (Alt+V+G)

- Your data entry group may have more parameters than Menindee. Select the full block for this parameter to uncomment (Ctrl+K) when a particular parameter is (not) available for this data entry group, but not for Menindee

Select the block in Grid View

locationSet (46)				
	= id	<> description	<> locationSetId	<> constraints
1	Dartmouth.sites	Data entry sites	sites	constraints
2	Dartmouth.sites_EVAP	Evaporation data entry sites	Dartmouth.sites	constraints
3	Dartmouth.sites_P	Precipitation data entry sites	Dartmouth.sites	constraints

Go to Text View (Alt+V+T)

```

</locationSet>
<locationSet id="Dartmouth.sites_EVAP">
  <description>Evaporation data entry sites</description>
  <locationSetId>Dartmouth.sites</locationSetId>
  <constraints>
    <attributeTextContains id="DATA_ENTRY_PARAMS" contains="EVAP"/>
  </constraints>
</locationSet>
<locationSet id="Dartmouth.sites_P">

```

Comment (Ctrl +K)

```

</locationSet>
<!--<locationSet id="Dartmouth.sites_EVAP">
  <description>Evaporation data entry sites</description>
  <locationSetId>Dartmouth.sites</locationSetId>
  <constraints>
    <attributeTextContains id="DATA_ENTRY_PARAMS" contains="EVAP"/>
  </constraints>
</locationSet-->
<locationSet id="Dartmouth.sites_P">

```

Back to grid view (Alt+V+G)

Folder Config/RegionConfigFiles/DataEntry

Ad 3: Open file Filters_DataEntry.xml in XMLSpy

Go to Grid Mode (Alt+V+G)

- Copy filter Menindee_DataEntry and paste after this section. Select the filter just copied and replace within this selection: Menindee-->Dartmouth

timeSeriesSets (42)				
filter (3)				
	= id	= name	Comment	<> child
1	DataEntry	Mobile data entry (demo)		child (1)
2	Menindee_DataEntry	Menindee	<child foreignKey="Menindee_DataEntry_AT"/>	child (11)

timeSeriesSets (42)				
filter (3)				
	= id	= name	Comment	<> child
1	DataEntry	Mobile data entry (demo)		child (1)
2	Menindee_DataEntry	Menindee	<child foreignKey="Menindee_DataEntry_AT"/>	child (11)
3	Dartmouth_DataEntry	Dartmouth	<child foreignKey="Dartmouth_DataEntry_AT"/>	child (11)

For each Parameter in the data entry group

- b) Copy filter Menindee_DataEntry_<par> and paste. Select the filter just copied and replace within this selection: Menindee-->Dartmouth

filter (22)

	= id	= name	(validationIconsVisible	(timeSeriesSetsId	(locationConstraints
1	Menindee_DataEntry_EVAP	Evaporation	true	DataEntry_EVAP	locationConstraints
2	Menindee_DataEntry_P	Precipitation	true	DataEntry_P	locationConstraints
3	Menindee_DataEntry_WT	Water Temperature	true	DataEntry_WT	locationConstraints
4	Menindee_DataEntry_H	Water Level	true	DataEntry_H	locationConstraints
5	Menindee_DataEntry_V	Storage Volume	true	DataEntry_V	locationConstraints
6	Menindee_DataEntry_EC	Electrical Conductivity	true	DataEntry_EC	locationConstraints
7	Menindee_DataEntry_DO	Dissolved Oxygen	true	DataEntry_DO	locationConstraints
8	Menindee_DataEntry_DOpct	Dissolved Oxygen (%)	true	DataEntry_DOpct	locationConstraints
9	Menindee_DataEntry_Q	Discharge/Flow	true	DataEntry_Q	locationConstraints
10	Menindee_DataEntry_QRL	Release Flow	true	DataEntry_QRL	locationConstraints
11	Menindee_DataEntry_QDIV_irrig	Diverted Flow (irrigation)	true	DataEntry_QDIV_irrig	locationConstraints

filter (22)

	= id	= name	(validationIconsVisible	(timeSeriesSetsId	(locationConstraints
1	Menindee_DataEntry_EVAP	Evaporation	true	DataEntry_EVAP	locationConstraints
2	Menindee_DataEntry_P	Precipitation	true	DataEntry_P	locationConstraints
3	Menindee_DataEntry_WT	Water Temperature	true	DataEntry_WT	locationConstraints
4	Menindee_DataEntry_H	Water Level	true	DataEntry_H	locationConstraints
5	Menindee_DataEntry_V	Storage Volume	true	DataEntry_V	locationConstraints
6	Menindee_DataEntry_EC	Electrical Conductivity	true	DataEntry_EC	locationConstraints
7	Menindee_DataEntry_DO	Dissolved Oxygen	true	DataEntry_DO	locationConstraints
8	Menindee_DataEntry_DOpct	Dissolved Oxygen (%)	true	DataEntry_DOpct	locationConstraints
9	Menindee_DataEntry_Q	Discharge/Flow	true	DataEntry_Q	locationConstraints
10	Menindee_DataEntry_QRL	Release Flow	true	DataEntry_QRL	locationConstraints
11	Menindee_DataEntry_QDIV_irrig	Diverted Flow (irrigation)	true	DataEntry_QDIV_irrig	locationConstraints
12	Dartmouth_DataEntry_EVAP	Evaporation	true	DataEntry_EVAP	locationConstraints
13	Dartmouth_DataEntry_P	Precipitation	true	DataEntry_P	locationConstraints
14	Dartmouth_DataEntry_WT	Water Temperature	true	DataEntry_WT	locationConstraints
15	Dartmouth_DataEntry_H	Water Level	true	DataEntry_H	locationConstraints
16	Dartmouth_DataEntry_V	Storage Volume	true	DataEntry_V	locationConstraints
17	Dartmouth_DataEntry_EC	Electrical Conductivity	true	DataEntry_EC	locationConstraints
18	Dartmouth_DataEntry_DO	Dissolved Oxygen	true	DataEntry_DO	locationConstraints
19	Dartmouth_DataEntry_DOpct	Dissolved Oxygen (%)	true	DataEntry_DOpct	locationConstraints
20	Dartmouth_DataEntry_Q	Discharge/Flow	true	DataEntry_Q	locationConstraints
21	Dartmouth_DataEntry_QRL	Release Flow	true	DataEntry_QRL	locationConstraints
22	Dartmouth_DataEntry_QDIV_irrig	Diverted Flow (irrigation)	true	DataEntry_QDIV_irrig	locationConstraints

- c) Your data entry group may have less parameters than Menindee. Select the full block for this parameter to comment (Ctrl+K) when a particular parameter is not available for this data entry group, but is available for Menindee
- d) Your data entry group may have more parameters than Menindee. Copy filter Dartmouth_DataEntry_EVAP and paste. Within this new filter replace 'EVAP' by the new parameter. Make sure you use an entry as defined in the list of timeSeriesSets at the top of the file (see 3rd screenshot).

filter (22)

	= id	= name	(validation...	(timeSeriesSetsId	(locationConstraints
1	Menindee_DataEntry_EVAP	Evaporation	true	DataEntry_EVAP	locationConstraints
2	Menindee_DataEntry_P	Precipitation	true	DataEntry_P	locationConstraints
3	Menindee_DataEntry_WT	Water Temperature	true	DataEntry_WT	locationConstraints
4	Menindee_DataEntry_H	Water Level	true	DataEntry_H	locationConstraints
5	Menindee_DataEntry_V	Storage Volume	true	DataEntry_V	locationConstraints
6	Menindee_DataEntry_EC	Electrical Conductivity	true	DataEntry_EC	locationConstraints
7	Menindee_DataEntry_DO	Dissolved Oxygen	true	DataEntry_DO	locationConstraints
8	Menindee_DataEntry_DOpct	Dissolved Oxygen (%)	true	DataEntry_DOpct	locationConstraints
9	Menindee_DataEntry_Q	Discharge/Flow	true	DataEntry_Q	locationConstraints
10	Menindee_DataEntry_QRL	Release Flow	true	DataEntry_QRL	locationConstraints
11	Menindee_DataEntry_QDIV_irrig	Diverted Flow (irrigation)	true	DataEntry_QDIV_irrig	locationConstraints
12	Dartmouth_DataEntry_EVAP	Evaporation	true	DataEntry_EVAP	locationConstraints
13	Dartmouth_DataEntry_P	Precipitation	true	DataEntry_P	locationConstraints

filter (24)					
	= id	= name	(validation...	(timeSeries SetsId	(locationConstraints
1	Menindee_DataEntry_EVAP	Evaporation	true	DataEntry_EVAP	locationConstraints
2	Menindee_DataEntry_P	Precipitation	true	DataEntry_P	locationConstraints
3	Menindee_DataEntry_WT	Water Temperature	true	DataEntry_WT	locationConstraints
4	Menindee_DataEntry_H	Water Level	true	DataEntry_H	locationConstraints
5	Menindee_DataEntry_V	Storage Volume	true	DataEntry_V	locationConstraints
6	Menindee_DataEntry_EC	Electrical Conductivity	true	DataEntry_EC	locationConstraints
7	Menindee_DataEntry_DO	Dissolved Oxygen	true	DataEntry_DO	locationConstraints
8	Menindee_DataEntry_DOpct	Dissolved Oxygen (%)	true	DataEntry_DOpct	locationConstraints
9	Menindee_DataEntry_Q	Discharge/Flow	true	DataEntry_Q	locationConstraints
10	Menindee_DataEntry_QRL	Release Flow	true	DataEntry_QRL	locationConstraints
11	Menindee_DataEntry_QDIV_irrig	Diverted Flow (irrigation)	true	DataEntry_QDIV_irrig	locationConstraints
12	Dartmouth_DataEntry_EVAP	Evaporation	true	DataEntry_EVAP	locationConstraints
13	Dartmouth_DataEntry_pH	pH	true	DataEntry_pH	locationConstraints
14	Dartmouth_DataEntry_Turbidity	Turbidity	true	DataEntry_Turbidity	locationConstraints
15	Dartmouth_DataEntry_P	Precipitation	true	DataEntry_P	locationConstraints

timeSeries Sets (42)		
	= id	(time Series Set
1	DataEntry_All	time Series Set (42)
2	DataEntry_H	time Series Set (1)
3	DataEntry_V	time Series Set (1)
4	DataEntry_P	time Series Set (1)
5	DataEntry_EVAP	time Series Set (1)
6	DataEntry_DO	time Series Set (1)
7	DataEntry_DOpct	time Series Set (1)
8	DataEntry_EC	time Series Set (1)
9	DataEntry_AT	time Series Set (1)
10	DataEntry_WT	time Series Set (1)
11	DataEntry_EGEN	time Series Set (1)
12	DataEntry_Turbidity	time Series Set (1)
13	DataEntry_WindVel	time Series Set (1)
14	DataEntry_WindDir	time Series Set (1)
15	DataEntry_pH	time Series Set (1)
16	DataEntry_Gates	time Series Set (1)
17	DataEntry_Gates.rr	time Series Set (1)
18	DataEntry_Gates.vs	time Series Set (1)
19	DataEntry_StopLogs	time Series Set (1)
20	DataEntry_FlowDir	time Series Set (1)
21	DataEntry_Q	time Series Set (1)
22	DataEntry_Q.spill	time Series Set (1)
23	DataEntry_Q.turb	time Series Set (1)
24	DataEntry_Q.valves	time Series Set (1)

Folder Config/RegionConfigFiles/DataEntry

Ad 4: Copy file TopologyGroup_Menindee.xml → TopologyGroup_Dartmouth.xml

Open file TopologyGroup_Dartmouth.xml in XMLSpy

a) (Ctrl+H) Search and replace all (case sensitive) 'Menindee' → 'Dartmouth'

Folder Config/RegionConfigFiles

Ad 5: Open file Topology.xml in XMLSpy

a) Unfold in Grid View. Copy GroupId Menindee_OPO and paste.

b) Update the groupId to Dartmouth_OPO

nodes	
id	OPOProcessing
name	OPO Processing
groupId (2)	
	Abc Text
1	Menindee_OPO
2	Dartmouth_OPO
node id=HydrographicUpdate name=Apply...	

Folder Config/SystemConfigFiles

Ad 6: Open file DisplayGroups_opoDataEntry.xml in XMLSpy

Go to Grid Mode (Alt+V+G)

- Copy displaygroup Menindee_OPO and paste after this section. Select the display group just copied and search and replace (ctrl+H) within this selection only: Menindee-->Dartmouth

plot (13)			
displayGroup (3)			
	id	name	displayGroup
1	de.OPO	Processing de sites	displayGroup (3)
2	Menindee.OPO	Processing Menindee sites	displayGroup (3)
3	Dartmouth.OPO	Processing Dartmouth sites	displayGroup (3)

displayGroup (3)			
	id	name	displayGroup
1	de.OPO	Processing de sites	displayGroup (3)
2	Menindee.OPO	Processing Menindee sites	displayGroup (3)
3	Dartmouth.OPO	Processing Dartmouth sites	displayGroup (3)

Replace

Find what: Menindee

Find Next

Replace with: Dartmouth

Replace

Replace all

Close

Types

☒ Attributes
 ☒ Elements
 ☒ Texts
 ☒ CDATA
 ☒ Comments
 ☒ Processing instruction
 ☒ DOCTYPE
 ☒ ExternalID
 ☒ ELEMENT
 ☒ ATTLIST
 ☒ ENTITY
 ☒ NOTATION

Set all

Clear all

Search in

☒ Names
 ☒ Contents

Settings

☐ Match case
 ☐ Match whole text only

Where

☐ Whole file
 ☒ Selection

Direction

☐ Up
 ☒ Down