

## Dear data producer for ERM

In the past, your Regional Coordinator was responsible for validation of your data. Therefore, she/he used different tools and gave feedback to you in a validation report, which was an Excel sheet looking like this:

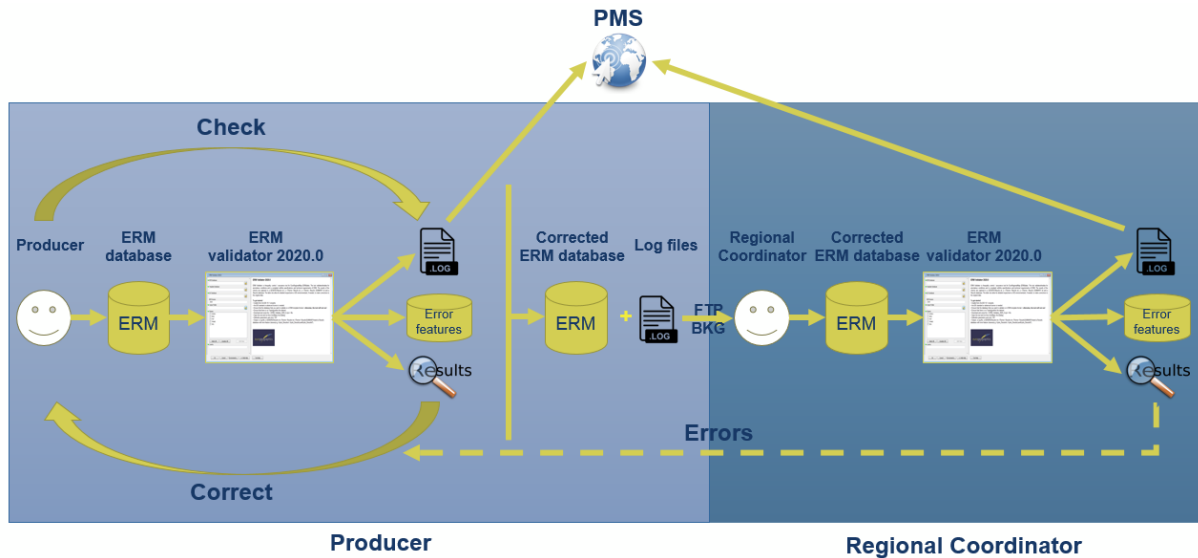
Check List for transportation	Validation result of RC	Comments of Producer
<b>General Data Delivery</b>		
Valid Geometry	ok	
minimum allowed area size: 60 000m <sup>2</sup>	ok	
minimum allowed distance between vertices of line and area features: 5m	4584 errors RoadL 22 errors RailrdL 2 errors FerryL	
minimum allowed length of a line segment: 50m	2884 features RoadL 186 features RailrdL (most of them exceptions)	
statistics of average distance between vertices		
<b>Selection criteria (Tested in projection Lambert_Conformal_Conic_WGS84)</b>		
The number of HARBORA areas less than 400 000m <sup>2</sup>	42 features	
The number of AIRFLDA areas less than 400 000m <sup>2</sup>	ok	
The number of RAILRDL features less than 1600m	ok	

In this Excel sheet your Regional Coordinator provided information to you regarding issues to be corrected and you had the chance to provide comments on it and could declare some of the issues as exception.

In the last year, KadasterNL developed the ERM Validator that should be used by you, the Regional Coordinators and by the Production Management Team during the final assembly.

That's why the workflow for validation has changed. Now, you as data producer are responsible for the validation and the quality of your data.

The following picture shows the ERM validation process:



The tool provides different output files:

- Log file
- Generic Results txt file
- <THEME> Results txt file
- <THEME> Results SUMMARY txt file → input for PMS
- Results database

To avoid the time consuming filling of the former validation report, you and your Regional Coordinator can upload the validation summary information into the Production Management System. Therefore, you have to use the text file **<THEME> Results SUMMARY**.

## Basic steps in the Production Management System:

1. Select your country
2. Choose your NMCA
3. Tab "ERM Documentation"
4. Choose production year
5. Tab "validation"

**Select a country:**

Germany ( ) 1.

EG Country Code	ISO Country Code	EU Country Code	Name original	Name english
DE	DE	DE	Deutschland	Germany

NMCA	Name english	EBM	ERM	EGM
<span style="border: 1px solid red; padding: 2px;">2.</span> <input type="text" value="BKG"/>	Federal Agency for Cartography and Geodesy	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

NMCA EBM - Documentation 3. ERM - Documentation

production year: 4. 2019

delivery validation 5. metadata

6. When you want to load your validation summary file for a theme for the first time, please select the theme which you validated and where you got the validation summary file from and click on the button "create validation checks".

NMCA EBM - Documentation ERM - Documentation

production year: 2019

delivery validation lineage metadata

select theme for the lineage and production year: HYDRO create validation checks

save

The empty list with the checks for the corresponding theme will appear. For the next upload of the validation summary file for a theme, you do not have to create the validation checks again.

7. Import the validation summary by clicking on the button "import validation file" and follow the instructions.

NMCA EBM - Documentation ERM - Documentation

production year: 2019

delivery validation lineage metadata

select theme for the lineage and production year: HYDRO create validation checks cancel sorting import validation file

test	test code	minimum quality requirements ↑↓	priority ↑↓	validation
General Data Delivery				
feature classes AQUEDCTL, COASTA, COASTL, DAML, DAMC, LAKERESA, LANDICEA, ISLANDA, SEAA, SEASTRTL, SPRINGP, SPRINGC, SWAMPA, RAPIDSL, RAPIDSC, WATRCRSA, WATRCRSL, WELLP	H001	<input checked="" type="checkbox"/>	high priority	
coordinate system (GEOGRAPHIC, decimal degrees)	H002	<input checked="" type="checkbox"/>	high priority	

Select your validation summary file and click “upload”.

NMCA | EBM - Documentation | **ERM - Documentation**

production year: **2019**

delivery | **validation** | lineage | metadata

select theme for the lineage and production year: **HYDRO** create validation checks cancel sorting import validation file

Durchsuchen... Hydro\_Results\_20190306-143813\_SUMMARY.txt **upload file** cancel

The result of your validation summary will be visible.

NMCA | EBM - Documentation | **ERM - Documentation**

production year: **2019**

delivery | **validation** | lineage | metadata


select theme for the lineage and production year: **HYDRO** create validation checks cancel sorting import validation file export to Excel filter table below on: show all

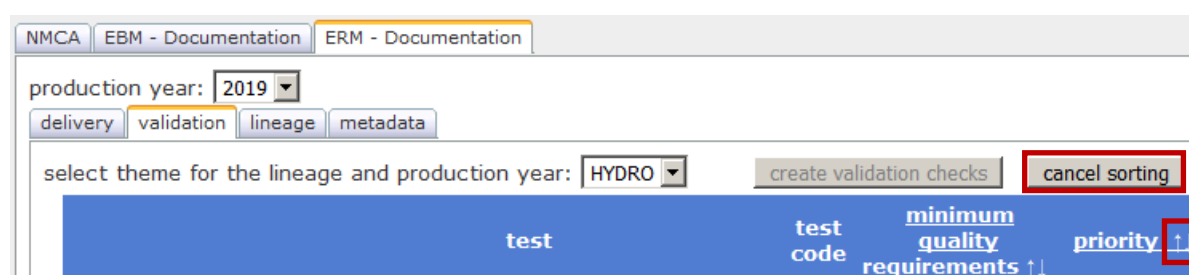
test	test code	minimum quality requirements	priority	validation result of RC	screenshot	comment NMCA	row change	bookmark
General Data Delivery	feature classes AQUEDCTL, COASTA, COASTL, DAML, DAMC, LAKERESA, LANDICEA, ISLANDA, SEAA, SEASTITL, SPRINGP, SPRINGC, SWAMPA, RAPDRL, RAPDRLC, WATCRSA, WATCRSL, WELLP	H001	<input checked="" type="checkbox"/>	high priority	<input type="text"/>	<input type="text"/>	25.03.2019 09:54:56	<input type="checkbox"/>
	coordinate system (GEOGRAPHIC, decimal degrees)	H002	<input checked="" type="checkbox"/>	high priority	<input type="text"/>	<input type="text"/>	25.03.2019 09:54:56	<input type="checkbox"/>
	map extent ( -25° < Lambda < 40° and 30° < Phi < 80° )	H003	<input checked="" type="checkbox"/>	high priority	<input type="text"/>	<input type="text"/>	25.03.2019 09:54:56	<input type="checkbox"/>
	mandatory feature classes COASTA, COASTL, DAML, DAMC, LAKERESA, LANDICEA(13030), ISLANDA, SEAA, SWAMPA, WATCRSA, WATCRSL must have features	H004	<input checked="" type="checkbox"/>	high priority	1 records found	<input type="text"/>	25.03.2019 09:54:56	<input checked="" type="checkbox"/>
	Empty or missing tables	H005	<input type="checkbox"/>	high priority	<input type="text"/>	<input type="text"/>	25.03.2019 09:54:57	<input type="checkbox"/>

## Handling of the validation table in the Production Management System:

Once you have imported your validation summary you will find the results of the checks in an overview table with the following columns:

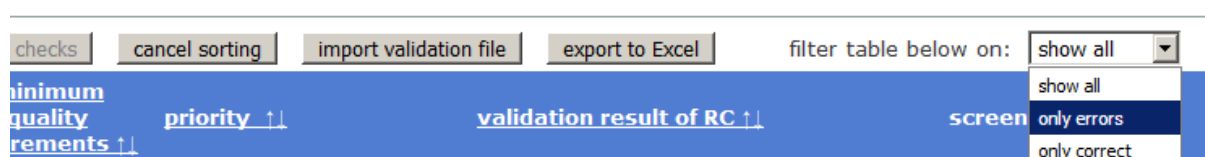
test and test code	As in the former Excel sheet, the checks are sorted into groups e.g. <i>General Data Delivery</i> or <i>Data Model and attributes structure</i> .  For each row you can see the performed check and its number (e.g. for HYDRO: Valid Geometry, H006).
minimum quality requirements	Indicates if the check belongs to the minimum quality requirements for ERM.
priority	The validation checks are divided into three categories: <ul style="list-style-type: none"> <li>high priority,</li> <li>medium priority and</li> <li>low priority.</li> </ul> Errors with “high priority” should be corrected by Data Producers at first.
validation result of RC	Amount of errors found for the specific validation check.
screenshot	You or the Regional Coordinator can add a screenshot for better understanding the issue.
comment NMCA	Place for your comments to the issues of the specific validation check. In case of any comments, please click the <b>button “save”</b> at the bottom of the page.
row change	Date and time stamp for uploading the validation summary.
bookmark	Possibility to bookmark a specific check to make Data Producers aware of a specific validation check. If the check box is marked then the row will be coloured.

Columns with -symbol can be sorted. The sorting can be undo by clicking on the button “cancel sorting”.



The screenshot shows the 'ERM - Documentation' tab selected. Below the tabs, there is a 'production year' dropdown set to '2019' and a 'select theme for the lineage and production year' dropdown set to 'HYDRO'. A 'cancel sorting' button is highlighted with a red box. The table header is blue and contains the following columns: 'test', 'test code', 'minimum quality requirements', and 'priority'. The 'priority' column has a sort icon and is also highlighted with a red box.

To make it comfortable for you, you can filter the results of the validation. You can show all validation checks, only the checks where errors were detected or only the checks without errors:



The screenshot shows the 'checks' tab selected. Above the table, there are buttons for 'cancel sorting', 'import validation file', and 'export to Excel'. A 'filter table below on:' dropdown is set to 'show all'. The table header is blue and contains the following columns: 'minimum quality requirements', 'priority', 'validation result of RC', and 'screen'. The 'filter table below on:' dropdown is open, showing options: 'show all', 'only errors', and 'only correct'.

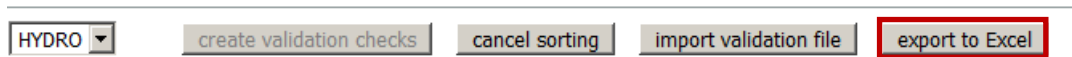
To add a screenshot for a specific validation check, click on the button “add” in the column screenshot. Follow the instructions to upload a screenshot as PNG. When clicking on “show” the screenshot will open.



After your correction, please upload the new validation summary file again. In the column “validation result of RC” the new result and the old result will be seen:

```
800 records found  
previous validation(20.03.2019  
11:32:30) == 1973 records found
```

If you want you can download the validation report as Excel document. Therefore, you have to click on the button “Export to Excel”:



To summarise, the Excel validation reports will not be used any more. To exchange information about the validation of ERM data between Data Producers and Regional Coordinators the validation table in the Production Management System has to be used.

If you have any questions, please do not hesitate to ask us or our colleagues at Kadaster NL. We hope we made the validation report as much as suitable for you!

Best regards,  
Jörgen, Alexander and Regine