International Material Data System

June 06, 2025

IMDS Production rollout planned for Saturday and Sunday, July 05/06, 2025

Preliminary IMDS Release 15.0 Information, v0.6

This document contains information about the enhancements available for testing on IMDS Model Office Next.

Modification Log

Revision	Date	Description
0.1	June 12, 2024	Added enhancements “Dynamic SVHC”, “MCCP regulation” and “Mandatory regulatory information”.
0.2	August 12, 2024	Added enhancements “TNPP regulation” and “Show rest as range”. Updated “MCCP regulation” to no longer mention MCCP substances being unflagged as SVHC. Added chapter “Further IMDS Connect changes planned for Release 15.0”.
0.2.1	September 05, 2024	Added modification log. Updated planned rollout from “quarter 1, 2025” to “quarter 2, 2025”. Added clarification for download files generated for “Show rest as range” enhancement, including description of calculation method. Added information regarding DMV files in chapter “Further IMDS-AI changes planned for IMDS Release 15.0”.
0.3	January 15, 2025	Added enhancement “Product Carbon Footprint (PCF)”
0.4	March 04, 2025	Added “PCF Updates Email” to “Product Carbon Footprint (PCF)” Renamed “IMDS Advanced Interface” / “IMDS-AI” to “IMDS Connect” following the name change on February 1, 2025
0.4.1	March 21, 2025	Clarified handling of Standard MDSs in “Overview” chapter for PCF Clarified display of default contact in case “PCF” responsibly is removed in “PCF Contact Person” Clarified cases where all production sites are visible in “Visibility to downstream companies” chapter for PCF
0.5	April 11, 2025	Added productive release date Removed the “TNPP regulation” from the scope of Release 15.0 Added enhancement “Updated User Privileges (Preview)” Corrected calculation of POR_{MDS} for Components in “Product Carbon Footprint/Production Sites” to use Calculated Weight instead of Measured Weight
0.5.1	May 12, 2025	Added MOF Next release date for the removal of “TNPP regulation”
0.6	June 06, 2025	Updated “Updated User Privileges” for Model Office Next release

Functional Changes

1. Dynamic SVHC

IMDS Model Office Next rollout: June 13, 2024

IMDS Connect relevance: yes

Two new daily files will be provided to provide information about updated Dynamic SVHC flags for substances in specific Materials: DS (“Dynamic SVHC”) for company MDSs and PDS (“Published Dynamic SVHC”) for substances in published MDSs.

Some substances are only treated as SVHC under certain conditions.

This affects all parts of the system that refer to SVHC (display of the substance in an MDS’s tree or MDS report, searching for the substance via the tree search or Where-Used-Analysis and inclusion of the substance in SCIP submissions).

For more details about scenarios in which certain substances are treated as SVHC, please check the enhancements listed below.

2. MCCP regulation

IMDS Model Office Next rollout: June 13, 2024

IMDS Connect relevance: yes

MCCP regulatory information is added to the existing CR and PR daily files. A list of all available hazard statements (see below) is provided in the “HS” common file. New elements are introduced for upload files to enter MCCP regulatory information.

A new substance group is introduced for MCCP (medium-chain chlorinated paraffins).

A new regulation type for MCCP is made available in the regulation wizard (also known as Chemistry Manager). This regulation type generally behaves the same way as other regulation types like BPR or REACH:

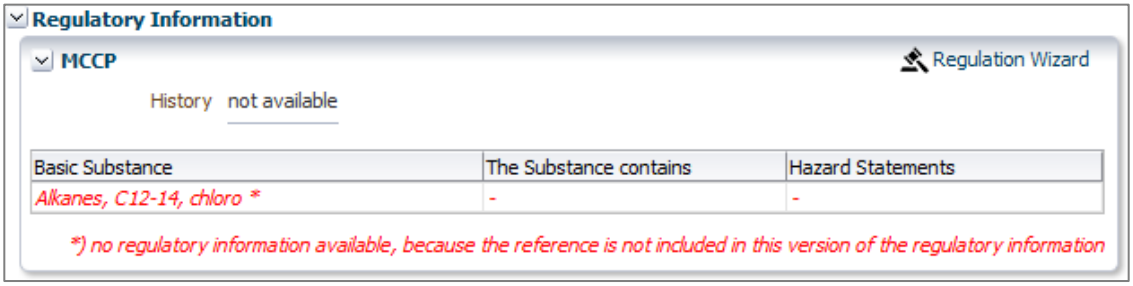

Image 1: Missing regulatory information for MCCP as displayed in the ingredients details of an MDS

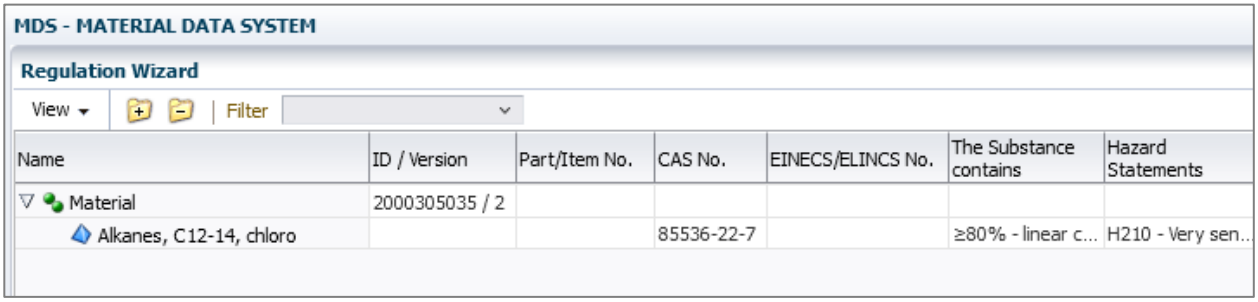

Image 2: Filled out regulatory information for MCCP as displayed in the regulation wizard

For each MCCP substance in a released material, two fields can be filled out in the regulation wizard:

- The substance contains
- Hazard statements

The options for “the substance contains” are:

- None
- ≥80% - linear chloroalkanes with carbon chain lengths within the range from C14 to C17
- ≥45% - by weight of chlorine in chloroalkanes with carbon chain lengths within the range from C14 to C17

The options for “hazard statements“ are all hazard statements according to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS), plus an option to declare the substance as “not classified”.

Both fields are mandatory and allow for multiple selections, but “none” and “not classified” may not be selected along with any other option in the corresponding list.

All MCCP substances will be subject to the “Dynamic SVHC” handling (see above) to be marked as SVHC if either no regulatory information is provided or if “≥80% […]” has been selected for the substance in the latest version of regulatory information. For the purpose of treating an MCCP as an SVHC, the selection of “≥45% […]” is irrelevant.

3. TNPP regulation (removed)

IMDS Model Office Next rollout: August 14, 2024

removal: May 12, 2025

IMDS Connect relevance: no

The IMDS Connect specification remains valid, but no regulatory information for TNPP is created. The CR and PR daily files do not contain any TNPP information and no RegIDs are generated for which regulatory information or requests can be uploaded.

In the next major IMDS Release 16.0, the IMDS Connect specifications will be updated accordingly and the TNPP regulation will be removed completely.

Overview

In previous versions of this document, a new regulation type was described, which included “Dynamic SVHC” handling for TNPP based on its content of 4-nonylphenol.

In the January 2025 update of the REACH SVHC candidate list, TNPP has been declared as an SVHC regardless of its content of 4-nonylphenol. This change in IMDS has thereby become obsolete and is removed from the scope of Release 15.

Since TNPP (CAS No. 26523-78-4) is already flagged as an SVHC in IMDS, no change for how this substance is handled is planned for Release 15.

Model Office Next

Existing regulatory information on MOF Next will remain, but no new regulatory information will be assigned to created materials.

Additionally, any open requests for TNPP will automatically be closed and all occurrences of TNPP will be marked as an SVHC again, regardless of its regulatory information.

4. Show rest as range

IMDS Model Office Next rollout: August 14, 2024

IMDS Connect relevance: no

There is no download interface change, but minimum and maximum values for portions defined as “Rest” will be provided in all download files that include portion data of references (CMS, MS, MOD, MP, MPS). There is also no change in the upload interface, since the minimum and maximum values are automatically calculated.

The MPAll and MPSAll files will be regenerated to include the proper range values for all portions defined as “Rest”, but company specific files will not be regenerated for existing data. Inhouse systems may calculate the minimum and maximum values for the “Rest” portions using the following formula:

min = 100% – Σ(max values) – Σ(fix values), but never <0%
max = 100% – Σ(min values) – Σ(fix values)
weighted mean = the old Rest value

Portions defined as “Rest” will be displayed as ranges with minimum and maximum values in case there is at least one other reference on the same level defined with a range.

The fix value displayed as the “Rest” value prior to release 15.0 represented the reference’s weighted mean and will still be available accordingly.

This change affects all cases where portions are used:

- Substances and Materials referenced in Materials
- Materials and Semi-components referenced in Semi-components

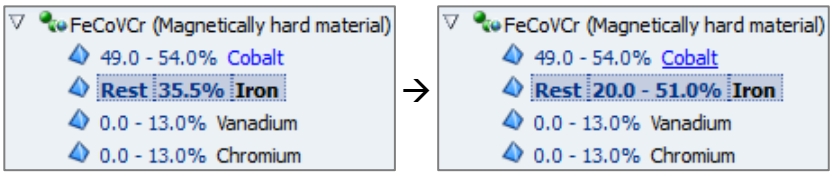

Image 3: Comparison of displaying rest portions as a range (display prior to release 15.0 on the left, display after release 15.0 on the right)

Affected references will be treated as range portions where applicable. E.g., it will be possible to find occurrences of the material above using the Where-Used Analysis when searching for 40% - 50% iron. That is because this range lies within the calculated range for iron, whereas before IMDS Release 15.0 the material would not have been found, because the rest value of 35.5% lies outside of this specified range.

5. Product Carbon Footprint (PCF)

IMDS Model Office Next rollout: February 19, 2025

IMDS Connect relevance: yes

The CT record for contact persons in the CC file will be extended to include the “PCF Contact” and “Default PCF Contact” flags.

Two new common files will be introduced: PCFCR (containing all countries, regions, and their relation) and PCFS (containing a list of PCF standards). The identifiers in both files can be referenced in uploads to create production site data.

Two company specific files will be introduced: PCF (containing all product carbon footprint information of own, accepted, and published MDSs and anonymized data for references within accepted and published MDSs) and TCF (containing all the transport carbon footprint information of own and accepted MDSs).

Note, that the field “PCF of referenced MDSs“ is not included in the PCF download file, because each change of PCF information would result in the recalculation of this value in all MDSs that include a reference to the updated MDS. To replicate this field in an inhouse system, the formula as described below in chapter “Product Carbon Footprint/Production Sites” can be used.

Overview

It is now possible to enter carbon footprint information for all Modules/MDSs in IMDS. Carbon footprint information is split into two sections:

- Product carbon footprint, which is entered in the ingredients section and is based on the production site(s) where the product is manufactured.
- Transport carbon footprint, which is entered for each recipient of an MDS and represents the transportation of the product from a production site to a specific customer site.

Carbon footprint information for components is entered as “kg CO_2e / component”, while for semi-components and materials the unit is “kg CO_2e / kg of material”.

Like regulatory information, new versions of both product carbon footprint and transport carbon footprint information can be created without requiring a new version of the Module/MDS. However, contrary to regulatory information, carbon footprint information is assigned to individual versions of Modules/MDSs. While the information is transferred when creating a new version of a Module/MDS, different versions of the same Module/MDS do not share the same carbon footprint information.

No carbon footprint information is provided for Published Standard MDSs and unlike regulatory information, it is not possible to enter carbon footprint for references to such MDSs.

PCF Contact Person

A new type of contact person is introduced: the PCF contact.

A contact of this type is required for each entry of product carbon footprint information. Like MDS contacts, companies have a “Default PCF Contact”, which will be displayed in

case the originally assigned contact is no longer active or no longer responsible for PCF.

Product Carbon Footprint/Production Sites

Production sites are shown in a table in the details panel of a Node/Module/MDS. Any number of production sites can be added. Once the product carbon footprint information for a production site has been released, it cannot be removed anymore, but only discontinued (see below).

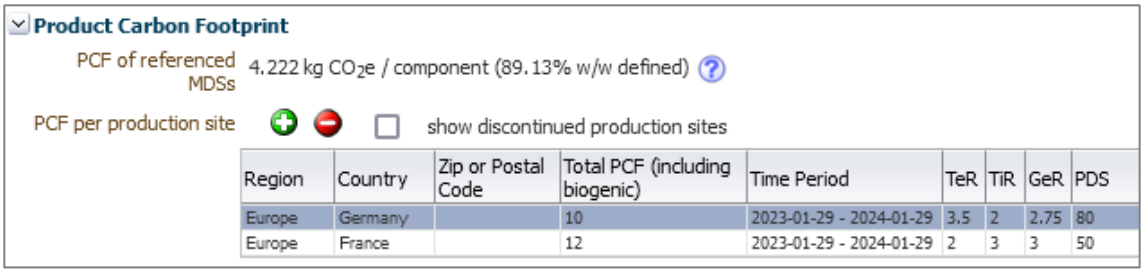

Image 4: List of PCF production sites

This table shows a summary of the details that can be viewed in the dialog that is also used for adding and editing production sites:

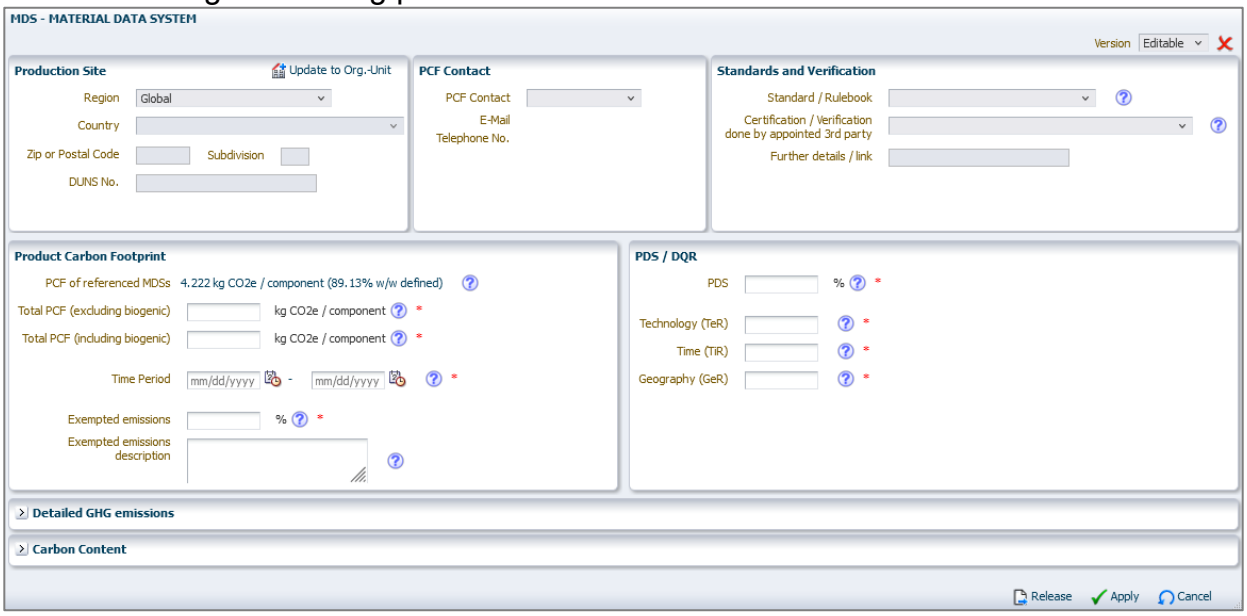

Image 5: Editing a production site.

The main identifier for a production site is the location information entered in the top left section of this dialog. It is not possible to change this information in future versions of a production site, except for adding additional information (e.g., specifying a zip code if it was not yet defined in the previous version).

It is possible to leave the default selection “Global” as the location for a production site without adding additional details, but no two production site entries for the same Module/MDS can have the same location information.

The read-only field “PCF of referenced MDSs” is also available above the table of assigned production sites. It displays the sum of PCF for all nodes/Modules/MDSs directly referenced inside the selected one by adding the lowest Total PCF value among all active production sites for each reference. The portion in brackets indicates for which portion of the referenced nodes/Modules/MDSs PCF information is available. In components, this portion is calculated based on weight.

The values are calculated as follows:

- Calculation of PCF_{MDS} (PCF of referenced MDSs)
  - For each reference: $PCF_{min} = \min(Total\ PCF\ incl.biogenic)$ of active production sites
  - For component MDSs:
    - For each reference by quantity: $PCF_{ref} = PCF_{min} \times quantity$
    - For each reference by weight: $PCF_{ref} = PCF_{min} \times weight\ in\ kg$
  - For semi-component and material MDSs:
    - For each reference: $PCF_{ref} = PCF_{min} \times portion$ (weighted mean or fix value)
  - $PCF_{MDS} = \sum(PCF_{ref})$
- Calculation of POR_{MDS} (portion of references with PCF information)
  - For component MDSs:
    - For each reference by quantity: $POR_{ref} = measured\ weight \times quantity$
    - For each reference by weight: $POR_{ref} = weight$
    - $POR_{MDS} = \frac{\Sigma(POR_{ref})}{\text{calculated weight}}$
  - For semi-component and material MDSs:
    - For each reference: $POR_{ref} = portion$ (weighted mean or fix value)
    - $POR_{MDS} = \sum(POR_{ref})$

These values do not represent an accurate calculation of PCF as they do not consider emissions during manufacturing of the selected product and only consider the lowest Total PCF among the production sites for each reference. Instead, this should be seen as a reference point to compare the entered Total PCF to. There is a check (see below) resulting in a warning in case the entered value is lower than the calculated one shown here.

The PDS (primary data share) and DQR (data quality rating, split into technology, time and geography) are the only fields that are visible to downstream companies except for direct customers (see “Visibility to downstream companies”).

Hidden inside the collapsed “Detailed GHG emissions” and “Carbon Content” boxes at the bottom of the dialog are additional optional fields, which are set to “0” by default. In case their value is changed to anything but “0”, the boxes are automatically opened when displaying the dialog to make the user aware that these fields have been changed.

Apart from the disabled fields and the “exempted emissions description”, all fields in this dialog are mandatory. A check ensures that everything is filled in correctly before releasing a new version of PCF information. A new sheet for PCF related checks is added to the warnings_errors_in_imds.xlsx file linked in the FAQ showing all checks that are applied when saving or releasing PCF information.

It is possible to “discontinue” a production site. A discontinued production site is not available for selection when entering transport carbon footprint (see below) and will be highlighted in both the list of production sites and when opening its details dialog. In case transport carbon footprint has already been entered referencing a discontinued production site, the system offers to automatically discontinue all related transport carbon footprint information, too. Discontinued production sites can be reactivated by creating a new version.

Transport Carbon Footprint/Transport routes

Outgoing transport carbon footprint information is shown in a table in the details panel of an MDS’s recipient. Any number of transport routes, represented by a combination of production site and customer site, can be added. Once the transport carbon footprint information for a transport route has been released, it cannot be removed anymore, but only discontinued (see below).

Image 6: List of transport routes

This table shows a summary of the details that can be viewed in the dialog that is also used for adding and editing transport routes:

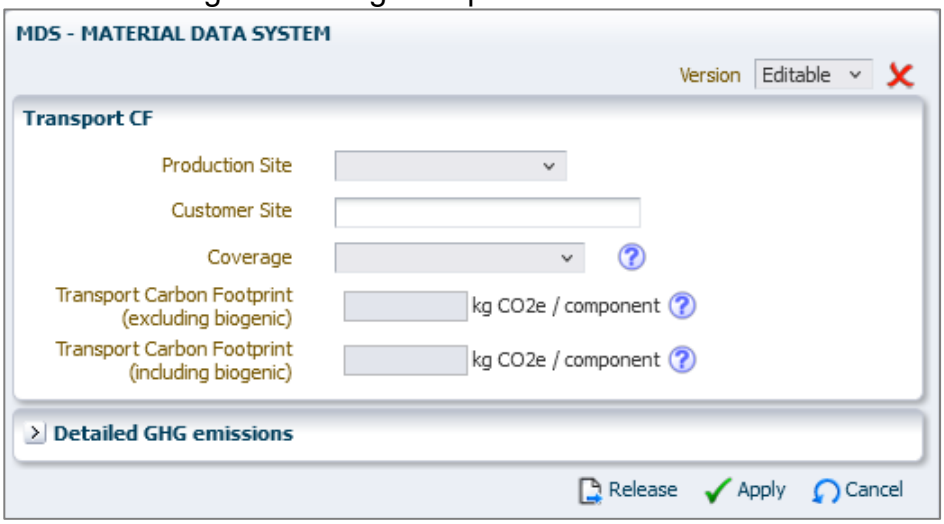

Image 7: Editing transport carbon footprint

The main identifier for a transport route is the combination of production site (which can be selected from a list that contains all active production sites as defined in the MDS's ingredients section) and a customer site. It is not possible to change this information in future versions of a transport route.

It is possible to leave the customer site field empty, but no two transport carbon footprint entries for the same recipient can have the same combination of production site and customer site.

Apart from the disabled fields and the "customer site", all fields in this dialog are mandatory. A check ensures that everything is filled in correctly before releasing a new version of transport carbon footprint information.

The updated warnings_errors_in_imds.xlsx file mentioned above also contains a list of checks applicable for transport carbon footprint.

It is possible to "discontinue" transport carbon footprint information. A discontinued combination of production site and customer site will be highlighted in both the list of transport carbon footprint information and when opening its details dialog. Discontinued transport routes can be reactivated by created a new version.

Visibility to downstream companies

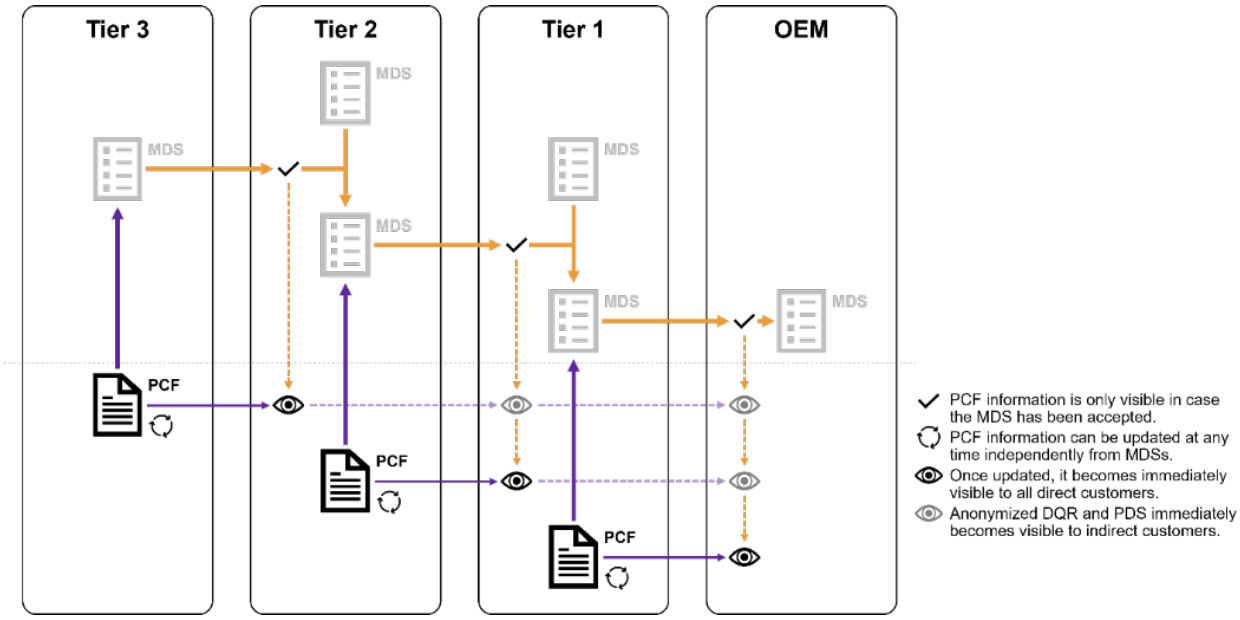

Image 8: PCF data flow and visibility

Carbon footprint information or the lack thereof should not be a reason for rejection of an MDS. For that reason, carbon footprint information only becomes visible in received MDSs once the MDS has been ✓ accepted.

In an accepted MDS, the recipient can see all transport carbon footprint information that has been assigned to their recipient entry. They are also able to see all production sites, which have been referenced at least once in the transport carbon footprint section. Other production sites are not visible.

For MDSs referenced inside accepted or published MDSs, only partial information is visible: for each visible production site (depending on which sites have been referenced in the transport carbon footprint information for the upstream company as a recipient) only the DQR and PDS values are shown. Neither the exact location of the site, nor the actual carbon footprint values are visible.

In case no transport carbon footprint information is available, all production sites are displayed. For MDSs for which no transport carbon footprint information has been provided and which are referenced inside accepted or published MDSs, as well as for direct nodes inside accepted or published MDSs, only partial information is displayed. In case of published MDSs, all production sites are fully visible to all companies.

Whenever new carbon footprint information is released, it immediately becomes visible to all affected companies. This includes displaying a new production site's DQR and PDS values for downstream companies after referencing it for the first time in a transport carbon footprint entry.

Copying / versioning Module/MDSs

When copying a Module/MDS or when creating a new version, all production sites in the ingredients section and all combinations of production sites and customer sites in the recipient section are copied to the new Module/MDS.

Only the latest version of carbon footprint information is copied and becomes the first (editable) version in the new Module/MDS.

In case the latest version of carbon footprint information if marked as discontinued, it is not copied.

PCF Updates Email

A new type of subscription email has been added: “PCF Updates”

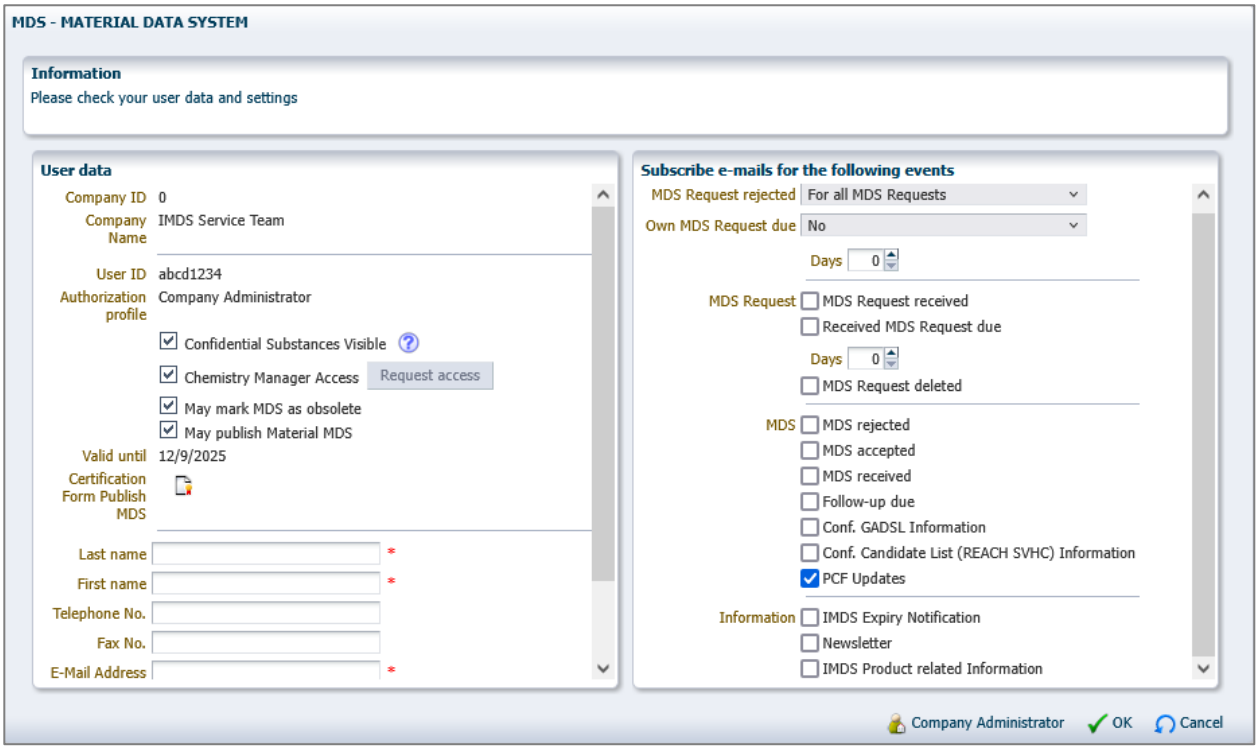

Image 9: The "PCF Updates" checkbox in the Personal Settings dialog

Users subscribed to this service will receive a weekly email about accepted MDSs for which their supplier has updated Product Carbon Footprint or Transport Carbon Footprint data over the course of the past week.

As full carbon footprint information is too complex to include in a single email for multiple production sites and transport routes in multiple MDSs, only the information which data has been updated is included, while details can be found in the online system or IMDS Connect download files:

Dear user,

Suppliers of your company Test Company [0] have released new Product Carbon Footprint and/or Transport Carbon Footprint information since 03/01/2025:

MDS ID/Version	Name	Part/Item No.	Supplier	Production Site Updated	Production Site Discontinued	Transport CF Updated	Transport CF Discontinued
2000370603 / 1	First MDS	P/N-A	Supplier A [12345]	X		X	
2000359413 / 1	Second MDS	P/N-B	Supplier A [12345]		X		X
2000359021 / 1	Third MDS	P/N-C	Supplier B [67890]			X	
2000369401 / 1	Forth MDS	P/N-D	Supplier B [67890]	X			

MATERIALDATA SYSTEM
This e-mail is generated automatically. Please do not answer this e-mail.
If you have questions, please contact one of our IMDS service centers under www.mdsystem.com.
DXC TECHNOLOGY

Image 10: Example of a PCF Updates email

6. Updated User Privileges

IMDS Model Office Next rollout: **June 06, 2025**

IMDS Connect relevance: **no**

IMDS now offers more detailed options to manage user privileges. While in prior IMDS releases, user privileges were dependent on both the user's profile and additional individual access rights such as "Chemistry Manager Access" or "May mark MDS as obsolete", the new system solely relies on individual privileges. These privileges include access to features that previously were covered by profiles.

To simplify user rights management, the system provides "presets" of privileges. These presets cover similar combinations of access rights the previous profiles and can be used to quickly assign all privileges associated with a specific role.

Available Privileges

The following is a list of all available privileges which can be granted to or revoked from each user:

Privilege	Privilege
MDS: accept/reject/follow-up	MDS Request: create/send
MDS: copy accepted/published MDSs	MDS Request: reject/assign MDSs
MDS: copy own modules/MDSs	MDS Request: search inbox
MDS: edit components/semicomponents	MDS Request: search outbox
MDS: edit materials	Regulatory Information: edit
MDS: forward	Regulatory Information: view/request
MDS: mark as obsolete	PCF: edit
MDS: mark as still valid	PCF: view
MDS: move MDSs between Org.-Units	SCIP Submissions: search
MDS: publish components/semicomponents	SCIP Submissions: submit
MDS: publish materials	Substances: create request
MDS: search inbox	Substances: search/view
MDS: search outbox	Company: edit
MDS: search where-used analysis	Users: edit
MDS: search/view	Contacts: edit
MDS: search/view obsolete	Contacts: search/view REACH contacts
MDS: send/propose	Admin: certification
MDS: view/mark confidential substances	Admin: trust users
	Statistics: view

Table 1: List of available privileges

Companies with an active IMDS Connect license also have access to the following additional privileges. Those not available to be granted by a Company Administrator are granted by DXC as part of the license, but are still visible to Company Administrators:

Privilege	Can be granted by Company Administrator
MDS: CAMDS import/export	yes
MDS: search/view imported	yes
IMDS Connect: download	no
IMDS Connect: download for corporation	no

Table 2: List of additional privileges for IMDS Connect

Many privileges have dependencies, e.g. for a user to have the “MDS: accept/reject/follow-up” privilege, they also require the “MDS: search inbox” privilege. IMDS automatically identifies missing prerequisites, informs the Company Administrator accordingly when modifying a user (see Assigning Privileges and Presets).

Presets

For companies that do not want to use this level of detailed control, presets are available. Presets work similarly to profiles in prior IMDS releases and allow company administrators to quickly set up a user e.g. as a “Company Administrator” or “User”, with all the required privileges for that role.

After a user has been set up with a preset, their individual list of privileges can be modified at any time.

The following presets are available:

- User
- User (read-only)
- Company Administrator and User
- Company Administrator only

The “User” and “User (read-only)” privilege are based on the profiles with the same name.

The “Company Administrator and User” preset is based on the “Company Administrator” profile, as it includes privileges necessary to manage the company, contacts and users, as well as the privileges necessary to work with MDSs, etc.

The “Company Administrator only” preset is new and only includes the privileges to manage the company, contacts, users, etc. It does not include any privileges to work with MDS related data.

Both in the details and the search results of the Administration > User screen, the field showing a user's profile is replaced with the preset best matching the user's current set of privileges.

In case the privileges granted to a user are no exact match to a preset, the best matching preset is shown including a plus (**+**), minus (**-**), or asterisk (*****) character:

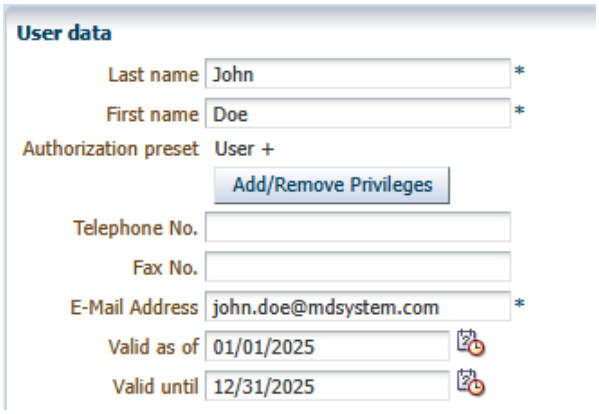

Image 11: Display of Preset in user details

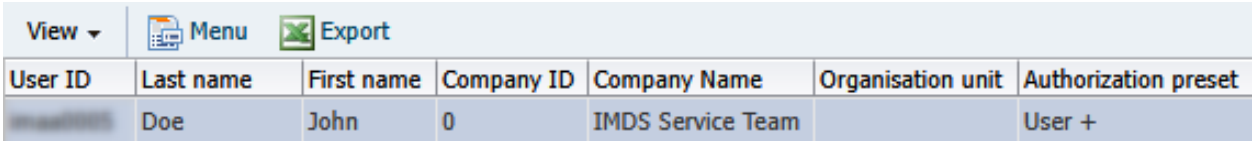

Image 12: Display of Preset in user search result

A plus (**+**) next to the preset name means that the user has been granted additional privileges, which are not part of the displayed preset ("User" in the example above). A minus (**-**) indicates that at least one of the privileges which are part of the displayed preset has been revoked from the user. An asterisk (*****) is displayed in case additional privileges have been granted while others have been revoked.

Assigning Privileges and Presets

Clicking the "Add/Remove Privileges" button in the user detail screen opens the following dialog:

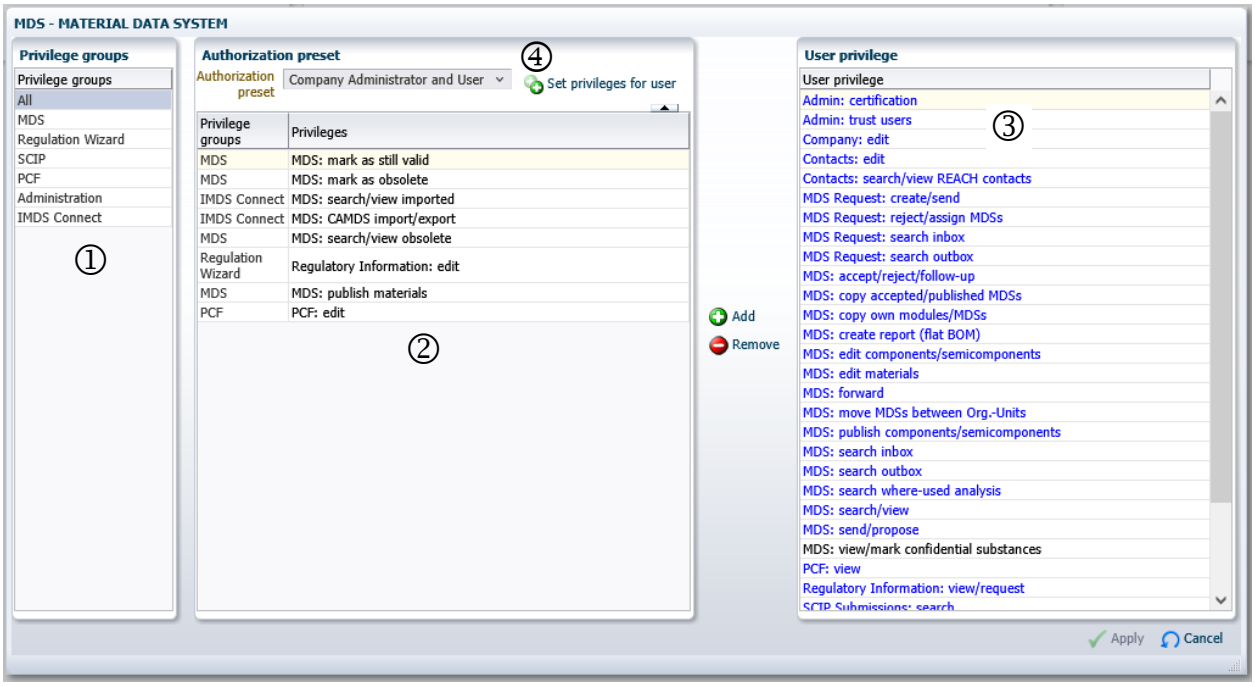

Image 13: Dialog to edit Privileges and Presets

The “Privilege groups” list on the left ① allows filtering the privilege table in the middle. By default, “All” privileges are shown.

The middle privilege table ② shows all privileges of the selected group, which are not yet granted to the user, while the “User privilege” list on the right ③ shows all privileges already assigned.

By selecting one or more entries in the middle table and clicking “Add”, the privileges are granted to the user. By selecting one or more entries in the list on the right and clicking “Remove”, the privileges are revoked. In case one privilege is dependent on another, the system automatically grants or revokes the corresponding privileges and displays a message accordingly:

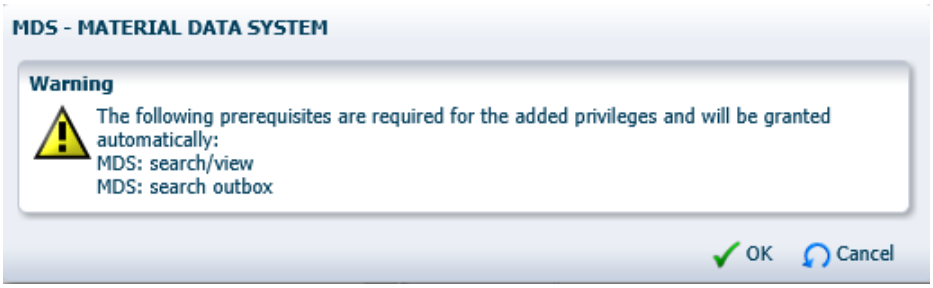

Image 14: Example of a dialog showing dependent privileges automatically being added

Choosing a preset in the top center of the dialog ④ serves two purposes: first, all privileges associated with the selected preset are highlighted in blue. Second, by clicking the “set privileges for user” button, the user’s list of granted privileges is set to

the selected preset. All other privileges previously granted are revoked but can still be manually granted afterwards.

Migration

No privileges are revoked during the rollout of release 15.0 and all existing users will still have the same access rights as before. This includes individually granted access rights like “Chemistry Manager Access” or “May mark MDS as obsolete”, which were not part of a profile.

Additionally, the privilege to view regulatory information in read-only mode will be granted to all users, who are not yet allowed to edit it.

Please note that by default PCF information will not be editable and the “PCF: edit” privilege must be granted first.

Check Changes

1. Mandatory regulatory information

IMDS Model Office Next rollout: **June 13, 2024**

IMDS Connect relevance: **no**

When sending, proposing, or publishing an MDS for which regulatory information can be entered (including nodes and referenced Standard MDSs), an error message will be displayed in the check result in case regulatory information has not been entered (status "no reg. info. provided yet"). There are no such messages when releasing a Module or MDS internally.

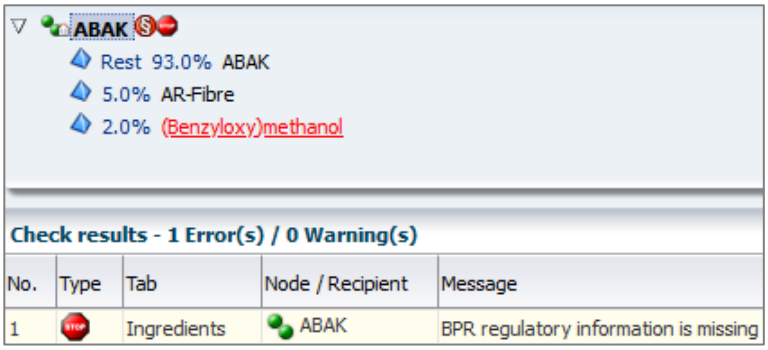

Image 15: Error in check result for missing regulatory information

If regulatory information is available but does not match the MDS's composition (status "incomplete"), a ⚠ warning message is displayed instead.

Please note that regulatory information can still only be entered if at least one version of the MDS has been released. E.g., a newly created material in version 0.01 which contains regulated substances, cannot be sent, and has to be released and proposed instead.

There are no messages in the check results for incomplete or missing regulatory information within referenced Modules or MDSs.

Further IMDS Connect changes planned for Release 15.0

Download Classes in IMDS Connect

Since the introduction of IMDS Connect (previously called “IMDS Advanced Interface” or “IMDS-AI”), different download classes have been developed, which differ from each other only in nuances.

DXC will switch all companies to the latest download class with IMDS Release 15.0. Old download classes will no longer be offered after IMDS Release 15.0 went productive.

The change in the in-house system is minimal and can be easily implemented with the release enhancements.

DXC will inform the affected companies and provide the necessary information.

“Batch Client” Support

DXC will discontinue the support for older versions of the “Batch Client” starting with IMDS Release 15.0. After this Release, only version 12.1 or higher will be supported. Companies still using an older version should have updated the “Batch Client” by then. Further adjustments, e.g. in the in-house system, are not necessary.

CA File

As the COA file contains all the information that is also available in the CA file, CA files will no longer be generated with IMDS Release 15.0.

Function “Basic Data for Upload”

As the information in the files available under the “Download” option in the “Administration” menu for IMDS Connect Users is also available in the common files, this function will be deactivated.

DMV File

A new indicator has been added to the RC data set that determines whether a received MDS was moved or copied during an IMDS Company Split Off. Details can be found in the IMDS Connect Preliminary Specifications document.

DXC will create DMVAll files for all IMDS Connect customers to share this information with in-house systems after go-live.

For questions on these two topics, please contact mds-solutions@dxc.com.