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IPC-1754 Materials Declaration Standard for Aerospace and Defense

IPC-1754 is a data exchange standard (i.e. a set of rules that computer systems can use to exchange data), suitable for exchanging material, component and chemical substance information for products between IT systems. It establishes a standard reporting format for data exchange between global supply chain participants. The standard is XML-schema based, which allows for communication of information which is intended to benefit suppliers and their customers. IPC-1754 covers chemical substances that may be present in materials, used in production or needed for operations and maintenance of the supplied product or sub product. It is suitable for complex products and provides a mechanism to exchange information between complementary industries.

IPC-1754 standard data can be expressed in three different classes:

IPC-1754 - Class E: The supplier responds to "product statements". This class does not report on single substances / substance groups in products, but gives a general statement about a product using predefined answers, "Yes", "No", or "Unknown". The general statements are formalized by query lists. One example is the AD-DSL (Aerospace and Defense Declarable Substance List) provisioned by IAEG®.
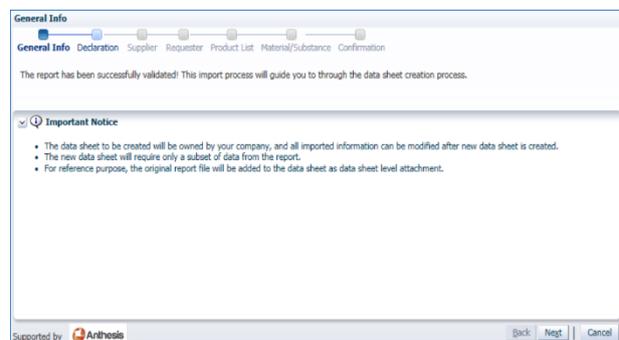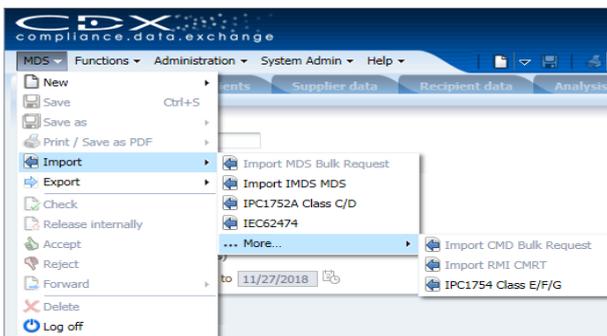
IPC-1754 - Class F: The supplier reports Partial Material Declaration (PMD), requiring the supplier to only report on declarable substances as defined by a list such as the AD-DSL.

IPC-1754 - Class G: The supplier reports Full Material Disclosure (FMD), requiring the supplier to report to the full weight of substances, although substances not covered by reference lists such as the AD-DSL may be aggregated into placeholders.

New CDX Functionality: Export and Import of IPC-1754 Class E/F/G

As a supply chain communication tool, DXC's CDX supports the export and import of all three classes, although importing Class E will result in an empty MDS with only supplier and requestor information.
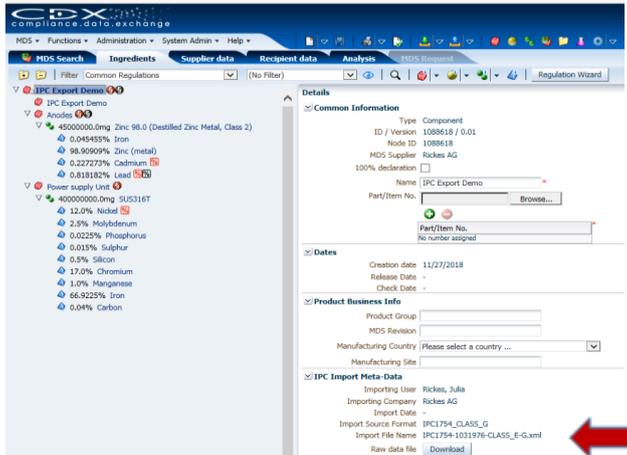
1. Import of IPC-1754 declarations in CDX

During the import process the user is guided by a wizard dialogue step by step.

Any MDS imported via our IPC-1754 interface (including those received from your supplier) is imported as an own MDS in edit mode so it can be reworked and amended for further processing. In addition, the MDS Search screen allows the CDX user to search for MDSs that originated as an imported IPC-1754 declaration.

Rules for the import:

The IPC information data for the MDS (e.g. import date etc.) can be viewed in the MDS Detail screen once imported. After the IPC-1754 file is imported, the resulted MDS will be displayed either in the Search Data Sheet page or in the MDS detail page, depending on the number of MDSs created.

2. Export of IPC-1754 declarations in CDX

The CDX user will be able to export MDSs to IPC-1754 declaration, if the MDS is:

- published or owned by the user company

- in view or edit mode.

When the export has finished you can open or save the created XML file. To use the export function a CDX MDS license is required.

Regulations themselves have been further extended to support **IPC-1754** Classes E, F, G related functionality, including **import** / **export** of that standard.

While **due-dates** (sunset dates), **exemptions** (applications, authorizations), and **thresholds** were already part of CDX, including the ability to create own regulations reflecting requirements as complex as RoHS, we have now added:

a) **Query Lists:** That allow companies to specify general product related statements, such as "Does your product contain radioactive substances", in order to support IPC-1754 Class E.

b) **Use Descriptors:** That allow for both substances as well as materials defining technical usage of substances in materials respectively the technical function of a material.

Keeping CDX dynamic and **flexible**, this functionality has not only been introduced to the AD-DSL as **newly implemented** regulation, but can be used in all regulations.

For further information please contact the CDX team: cdx-info@dxc.com.