IMDS Conflict Minerals Analyzer

User Manual Version 2.0



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Preface

With the activation of conflict mineral regulations in the US, the interest of analyzing International Material Data System (IMDS) material data sheets (MDSs) for the use of conflict mineral basic substances is increasing in the IMDS user community.

To enable a larger community of IMDS users to use the CMD Request functionality within the Compliance Data Exchange system (CDX: <u>https://www.cdxsystem.com</u>), we introduce Hewlett Packard Enterprise's (HPE) new IMDS CM Analyzer tool.

The IMDS CM Analyzer provides IMDS users the fastest and easiest method available to examine suppliers' existing material data sheets (MDSs) and locate conflict minerals. IMDS users can then chose to have these results sent to the Compliance Data Exchange (CDX), and may elect to have CDX automatically produce and email Conflict Mineral Declaration Requests to these suppliers. These new capabilities facilitate US Conflict Mineral act compliance by streamlining the conflict mineral location, identification, and feedback request processes, thus automating all possible operations in a straightforward fashion, and throughout the entire supply chain.

This user manual describes how to analyze existing IMDS MDSs for Conflict Minerals using the IMDS Conflict Minerals Analyzer, and create CMD Requests that will ask your IMDS supplier(s) for a Conflict Minerals Declaration with regard to an existing IMDS material data sheet.

Although the use of the IMDS will not be described in this document, you can learn more about the IMDS and its use through the following informational and training links: see <u>https://public.mdsystem.com/web/imds-public-pages/imds-training-courses</u> and the training material available: https://public.mdsystem.com/documents/10906/16811/imds_usermanual_11.0_en.pdf

Working with the IMDS Conflict Minerals (CM) Analyzer

Pre-Requisites

The IMDS CM Analyzer is available for every IMDS user with valid credentials. The user's company needs to be registered in IMDS, as well as in CDX.

To register your company in CDX, please use the "Register Your Company" function in the Registration menu on the CDX login page: <u>http://www.cdxsystem.com/cdx</u>. To become familiar with the CDX system, please review the CDX User Manual, which is available in the Help menu on the CDX login page.

Although use of the CDX base functionality such as creating a CMD or sending a CMD back to the requestor is free-of-charge, incorporating received CMDs into your own CMD requires a <u>CMD Manager license</u> for a nominal annual fee of 500 EUR.

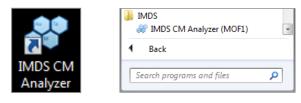
Start the IMDS CM Analyzer

The IMDS CM Analyzer is an application service developed in the Java programming language. For that reason, a Java Runtime Environment needs to be installed on each client PC in order to run the IMDS CM Analyzer. After installing Java, the IMDS CM Analyzer is started by using an internet link.

All information to install Java and the IMDS CM Analyzer, as well as installation troubleshooting tips, can be found in <u>Chapter "Installation"</u>.

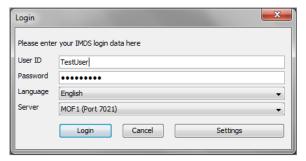
During the first startup, Java Webstart will automatically create an IMDS CM Analyzer icon on your desktop and a menu entry IMDS | IMDS CM Analyzer.

You can launch the IMDS CM Analyzer by double-clicking on that icon or by using the menu entry.



Login

To log on to the IMDS CM Analyzer, you will use your IMDS User ID and password. You can also select your preferred language from those available. As a reminder, although IMDS prompts are available in several languages, English is the preferred language for the data fields.



Proxy Settings

If your PC is located in a company network and accesses the internet through a firewall, you must enter the proxy settings for the IMDS CM Analyzer at the first login from the PC. By clicking "Settings" in the Login dialog, you can access the "Proxy Settings" screen. This action must be performed manually the first time the IMDS CM Analyzer is used on a computer. The proxy settings will not be captured from Java or your browser.



Proxy Settings		×
Please enter your pro	oxy settings here	
	Use the proxy server	
HTTP Proxy / Port	http-proxy.mycompany.com	80
HTTPS Proxy / Port	http-proxy.mycompany.com	443
Network Engine	Use alternate network code	
	OK Cancel	

Tick the "Use the proxy server" checkbox and enter the HTTP and HTTPS proxy server names and ports. If the information is not available from your browser's Tools > Internet Options > Connections > LAN Settings tab, your company's network administrator can provide you with this information.

The setting "Use alternate network code" should be disabled.

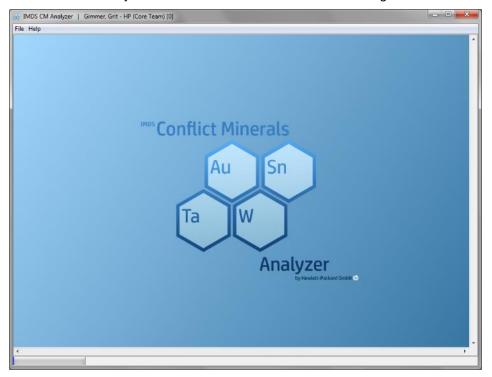
Depending on the configuration of your proxy server, you will receive a dialog similar to the following after pressing "Login" in the IMDS CM Analyzer Login dialog. You enter your internet proxy User ID and password here – not your IMDS User ID and password. The exact format of the dialog will depend upon the version of Java Runtime you are using.

Proxy Authe	entication
Please enter User ID	r your Proxy user ID and password here:
Password	•••••
	OK Cancel

If you still experience connection problems after entering the correct proxy settings, select "Use alternate network code" and try to connect again.

Main Window

The IMDS CM Analyzer Main Window is the base for all working windows:



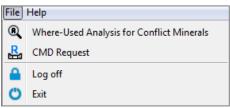


Menus

There are only two menu items:

- File
- Help

• File



This menu provides the Where-Used Analysis to find conflict minerals in your company's MDS data as well as the CMD Request function. Here you can search for existing (own) CMD Requests or create new CMD Requests. The Log Off and the Exit functions are also contained here.

Note: It is not possible to login on to the IMDS online application and IMDS CM Analyzer in parallel. You have to logoff the CM Analyzer to use the IMDS online application.

• Help

Help			
(j)	About		
?	Online User Manual		
2	Terms of use	2	IMDS Terms of use
		2	CDX Terms of use

This menu option displays IMDS CM Analyzer version information and allows the user to download the latest IMDS CM Analyzer User Manual. "Adobe Acrobat Reader" is required to view and browse the User Manual, as well as the IMDS and CDX Terms of Use.

General Functions within the IMDS CM Analyzer

Selection of multiple rows

The user can select multiple result rows by using the Ctrl- or Shift key and process them by using "Apply" or "Drag and Drop." They can be dropped into any target that accepts multiple rows such as the Supplier search table.

Note: "Create Conflict Minerals Declaration" is only available for a single MDS.

Calendar control

To simplify date input, a calendar control is available for all date entry fields. Press the button beside the date field where the control appears. The selected date will be transferred into the date field in the correct format.

Personalization

Most of the windows save their size information when closed by the user. By opening them again, the previous height and width of the window will be restored. The same applies to the column order and width in search result tables.

The order of the columns in the result table may be changed by using the mouse to click on and select the column heading and then dragging the column to another location.

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The triangle in the column header shows how the information is sorted – both field and direction. Clicking on the column header will sort the result table by the selected column in ascending order. A second mouse click will change it to descending. ID / Version and Node ID are sorted numerically. Within MDSs with the same ID, the version is sorted.

Total records found	d: 13	
▼ No.	Туре	Article I
2	1	Copy_Component
3	<i>(</i>	Copy_GM Test 200
4	9	Copy_Release3.0
5	9	Copy_Aggregatmo
6	9	Copy_Copy_Relea

Favorites

Within the Where-Used Analysis Supplier Search, you can create a personal Favorites list from the search results to use in future searches. The Favorites List is context-sensitive and can be recalled with a button click. By clicking on the "Favorites" button in the Company Search, you can select in which Company Favorites you would like to search.

🍰 Company Search				
Search Detail				
Company Name		Com	pany ID	without Org Units
Org Unit		DUN	S Number	
City		Zip C	ode	
Country		•		
User Name		User	ID	
Total records found: 0				Favorites Search
 Company Name 	e Org Unit	ID Zip Code	City	Country
4		m		,
•		11		•
+ Favorites - Fav	rorites			Apply

With the button you can add a selected company from the current search result table to the Favorites List.

A Favorites list may contain up to 99 entries. The button Favorites removes a selected entry from the Favorites List. The button Favorites shows the Favorites List. The current search criteria is not considered, but remains in the search screen. If no Favorites List is found, an error message is displayed.

Windows

For each function, a separate view/search window is available. All windows can be opened independently from one another, and remain in the working area of the IMDS CM Analyzer until the user closes them or exits the IMDS CM Analyzer.

The "Where-Used Analysis" window contains four tabs:

- Search
- Ingredients (read-only)
- Supplier data (read-only)
- Recipient data (read-only)

The "CMD Request" window contains two tabs:

- Search
- Detail



The "Search" Tab

This tab allows the user to enter the search criteria. Depending on the field, the search criteria can be typed (e.g. Article Name) or selected from the drop-down menus (e.g. Version).

A certain supplier can be selected by clicking the 🍰 Button at the right hand side of the data entry field.

The Analyze button in the right middle of the active window can be used to execute the analysis. The results of the analysis is displayed in a result table.

Where-Used Analysi	is for Conflict Minerals						
Search Ingredients S	Supplier data Recipient (data					
Step 1: Enter analysis	criteria						
Analysis type	Conflict Minerals		Rule based se	election	Component Search	n	•
Step 2: Specify Rules							
Article Name							
Part/Item No.			Development Sample	Report	▼ MDS I		rrent version 👻
Date	published / accepted from 03/14/2015	d / internally released or to 04/14/2015	Created (own MDS (MM/DD/YYYY)	s)			
Supplier MDSs	accepted MDSs	published MDSs					
🗸 all	5	Supplier		Org Unit	t	Company-/	DrgID
							save list
Own MDSs/Modules	📝 own MDSs			V ow	n Modules		
	Assigned Org Unit Assigned Contact	•	•	📄 last	t edited by me		
Total records found: 26	i						Analyze
▼ No.	Туре	Article Name	Part/Item/MatNo.		/ Version	Node ID	Supplier/Recipient
	16 🥥	Test		90168383			HP (Core Team) [0]
	17	TS 2020 Confidential G		90202983			HP (Core Team) [0]
	18 🜍 19 🌍	mmmComponent_9020 ApplCadmium		90203411 90213427			3 HP (Core Team) [0]
	20	AppiCadmium ScopeTest4		90213427			HP (Core Team) [0]
	20 0	Teil 902134317		90213427			THP (Core Team) [0]
•			III		.,		Fill (core reality [o]
						Create Conflict Mir	neral Declaration Request

To avoid time-consuming and mostly unnecessary network transfers, the amount of transferred search results is limited to 2,000 result rows in the first try. If more results are available, the user is asked if he/she really wants to transfer all the results.

IMDS CM Analyzer Functions

The IMDS CM Analyzer contains two modules:

- The Where-Used Analysis, which is limited to an analysis for Conflict Minerals, including the tabs to browse the MDS in read-only modus
- The CMD Request module

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When you log in to IMDS CM Analyzer, the Where-Used Analysis window is shown by default.

-		
ſ	28° IN	IDS CM Analyzer Gimmer, Grit - HP (Core To
	File	Help
		Where-Used Analysis for Conflict Minerals
	₽	CMD Request
		Log off
	C	Exit

Where-Used Analysis for Conflict Minerals

To find all MDSs with Conflict Minerals included in your own (as well as in supplier) MDSs, the Where-Used Analysis can be executed. While different parameters can be choosen to define your search, the Analysis type "Conflict Minerals" is available to provide you with an easier and purposeful use of the IMDS CM Analyzer tool.

🔍 Where-Used Analysis for Conflict Minerals						
Search Ingredients Supplier data Recipient data						
Step 1: Enter analysis	criteria					l
Analysis type	Conflict Minerals		Rule based sele	ection Component S	Search	•
Step 2: Specify Rules						
Article Name						
Part/Item No.		Dev	elopment Sample Report	MDS I	D	ent version 👻
Date	published / accepte from 03/14/2015	d / internally released	or created (own I			
Supplier MDSs	accepted MDSs	published MDSs				
🔽 all	Su	pplier		Org Unit	Company-/C	DrgID
						save list
Own MDSs/Modules	vown MDSs			📝 own Modu	ıles	
	Assigned Org Unit Assigned Contact			📄 last edited	d by me	
Total records found: 0						Analyze
▼ No.	Туре	Article Name	Part/Item/MatNo.	ID / Version	Node ID	Supplier/Recipient
					Create Conflict Miner	ral Declaration Request

Within the rule based selection, you can search for Component / Semicomponent / Material or MDS/Modules. In Step 2, you must specify your search parameters, such as:

- Article Name
- Part/Item Number
- Development Sample Report (yes/no)
- MDS ID
- Version (current/all)

Furthermore, you can limit your analysis for a certain time period or search only for Supplier or Own MDSs/Modules (e.g. all MDSs in a particular Organization Unit or created between certain dates).



Based upon the complexity of the analysis request and the current system load, analysis may take some time. If your company has a very high quantity of complex datasheets, the analysis may exceed the time permitted. If this occurs, we suggest the user perform multiple searches with fewer results per search using the date range filters found in the middle tile. Only one analysis may be scheduled by a single user at one time. After you log off, the analysis result will no longer be available.

Clicking the **Analyze** button starts the analysis, and the result list shows all datasheets which contain Conflict Minerals (that meets your defined parameters). By clicking on an MDS you can open the Ingredients / Supplier data / Recipient data screens. Double clicking an MDS opens the Ingredients screen. All MDS detail information are read only and cannot be changed in the IMDS CM Analyzer.

The "Ingredients" Tab

After a search has been performed, you can select an MDS/Module from the results and click on the "Ingredients" tab. The selected MDS/Module information is then requested from the IMDS server and displayed.

Q SB_Release3.0_OEM (2326277 / 0.02)							
Search Ingredients Suppler data Recipient data							
🖉 👁 🌯 🍌 🗶 💽 🔁 Q. Basic Substance List Conflict Minerals 🗸							
SB_Release3.0_OEM	Details Recyclate Applica	tion.					
□	Туре	Component (own MDS)					
Rest 4.5% ARS 1.2	ID / Version	2326277 / 0.02 (Node ID 2326291)					
	MDS Supplier	HP (Core Team)					
🔬 8% Mercury	Description	SB_Release3.0_OEM					
9% Cadmium 5% Nickel	Part/Item No.	Kapitel 1					
67% Confidential Substances	Measured weight per item	6520	g -				
□	Tolerance	2	[%]				
💑 10-20% Chromium, ion (Cr 6+) 💷	Calculated weight per item	6523.89 g					
	Deviation	0.059663 %					
🔬 3% Nickel							
	Sample Report	Development Sample Report					
	Create Date	06/27/2005 Check Date 06/27/2005					
0-10% Distillates (petroleum), a Rest 92.5% Rubber, natural	Release Date	not available Show Recommendations					
🖨 🥥 1000g HZ2							
6% Chromium, ion (Cr 6+)							
8% Mercury							
9% Cadmium 5% Nickel							
67% Confidential Substances							
□							
Rest 36.858% Lead							

The left side shows the selected MDS/Module as a tree. On the right side the folder 'Details' shows the detailed information for the selected Component / Semicomponent / Material / Substance in the tree structure. When first entering the Ingredients tab, the tree structure is collapsed to show just the Top Node of the tree and the direct children of that node. Clicking on the 🖨 button will expand the entire tree down to the basic substance level. Clicking on the in front of a node will expand just that node. Conversely, clicking on the is will collapse the entire tree to the default view – the top node and its direct children. Clicking on the is will collapse that node.

Basic Substance Lists

The "Basic Substance List" allows you to select a Basic Substance List for filtering your view of the tree structure. Several options are available. The names of Basic Substances in the selected list will be displayed in a different color.

Within the IMDS CM Analyzer, the default is the "Conflict Minerals" list. When using this Basic Substance List, all conflict minerals are displayed in red.



The "Supplier Data" Tab

The Supplier data refers to the contact for any questions of this datasheet. By necessity it would be an employee of the creating company. The available information is inserted automatically and cannot be changed.

The "Recipient data" Tab

The Recipient data for the MDS is shown when a recipient was assigned. These data elements are also in readonly mode, so you cannot add or delete recipients here.

The "Search" Tab

After you analyzed your MDSs for the use of conflict minerals, a new button / context menu item "Create Conflict Mineral Declaration Request" is enabled.

🔍 Where-Used Analysis for Conflict Minerals 🛛 🕞 💌						
Search Ingredients Supplier data Recipient data						
Step 1: Enter analysis of	criteria					1
Analysis type	Conflict Minerals		Rule based s	election Component S	Gearch	•
Step 2: Specify Rules						
Article Name						
Part/Item No.			Development Sample	Report 🔹	MDS ID CU	rrent version 👻
Date	published / accepted /	/ internally released or	created (own MDS	is)		
	from 03/14/2015	to 04/14/2015	(MM/DD/YYYY)			
Supplier MDSs	accepted MDSs	published MDSs				
🗸 all	Suj	pplier		Org Unit	Company-/C	DrgID
						save list
Own MDSs/Modules	👿 own MDSs			🔽 own Modules		
	Assigned Org Unit Assigned Contact	•	•	🔲 last edited by m	ie	
Total records found: 26						Analyze
▼ No.	Туре	Article Name	Part/Item/MatNo.	ID / Version	Node ID	Supplier/Recipient
	16 🧔	Test		901683834/0.01		HP (Core Team) [0]
	17 🥥	TS 2020 Confidential G		902029834 / 0.01		HP (Core Team) [0]
	18	mmmComponent_9020		902034113/0.01		HP (Core Team) [0]
	19 (7) 20 (7)	ApplCadm ScopeTes Create C	Conflict Mineral Dec	laration Request		HP (Core Team) [0]
	21 🧳	Teil_902134317		902134317 / 0.01		HP (Core Team) [0]
•			III			•
					Create Conflict Min	eral Declaration Request

Depending on the MDS supplier and/or the contained data sheets in the selected MDS you may see the following dialogs:

1. You selected an own MDS without any references to other MDSs:

ſ	Informati	on 💌	J
	1	You cannot create a CMD Request for the selected MDS, because it belongs to your own company and does not contain any references to received or published MDSs of other companies.	
		ΟΚ	

Please note that you cannot send a CMD Request to your own company.

2. You selected an own MDS with one or more referenced MDSs from other companies:

want to create a CMD Req			rals. Please select the MDS for which you
 Article Name 	Part/Item No.	ID / Version	Supplier
ACr98.5		11832283 / 2	IMDS-Committee / ILI Metals [18986]
Vetzteil 12V	4432	904163226 / 1	OXS [900593]
PCB Controller	121212	904163225 / 1	OXS [900593]

You can now select the MDS for which you want to create the CMD Request. If you select an MDS from "IMDS Committee / ILI Metals" or from "Stahl und Eisen Liste" you will see the following error message:

Infor	mation 🗾
	This company cannot receive a CMD Request, because it is a virtual company in CDX used to provide Standard Materials. Please create a CMD Request for your actual supplier
	ОК

When you select an received or published MDS from your supplier a window opens, where you are asked to enter your **CDX credentials** (CDX User ID and the corresponding CDX password – not your IMDS credentials!):

Logon	
compliar	nce.data.exchange
Please enter y	our CDX login data here
User ID	
Password	
Please use you	r CDX credentials and not your IMDS credentials.
	Login Cancel
To register you Launch CD)	ur company in CDX or login CDX directly dick here:

The IMDS CM Analyzer establishs a connection to the CDX system in the background. The requested **CDX** Logon details must be entered to create a CMD Request.

Note: If your company is not registered in CDX,

please click on Launch CDX first, to register your company.

If you enter wrong logon details, the IMDS CM Analyzer cannot establish the connection to the CDX system. The following message appears:



Once your CDX credentials have been accepted, the CMD Request window opens with the Detail Tab displayed with prefilled fields where possible. This data is extracted from the MDS and the MDS recipient data.

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CMD REQUEST

With this function, you can send your IMDS supplier a request for a Conflict Minerals Declaration with regard to an existing MDS – either to a company registered in CDX or one that is not already registered. However, prior to using this function, you must work with your suppliers (outside of CDX) and agree that you are going to use CDX to communicate requirements. You will need to know, in detail, to which company to send the Requests. This section details how to use the CMD Request function.

To use the CMD Request function, you have to establish a connection to CDX. Selecting the menu "CMD Request" opens the above mentioned window, where you enter your **CDX credentials** (CDX User ID and the corresponding CDX password).

Note: To be able to create a CMD Request your CDX User ID needs to be marked as "CMD Contact" in CDX.

The CMD Request window consists of a Search tab layer and a Detail tab layer and represents the CMD Request Outbox (own CMD Requests sent to suppliers). A CMD Request Inbox view is not necessary because the IMDS CM Analyzer will not receive any CMD requests. CMD requests can only be received in the CDX system.

Search for CMD Requests

In the Search tab layer you can search for your own existing CMD Requests and track their status or start creating a new CMD Request using the respective buttons.

The search parameters and the search result table are combined in one screen for each of the selectable type. This screen is divided into two areas: a top area and a bottom area. The top area is used to show the search parameters and the bottom area displays the search result table.

🍰 CMD Request								
Search Detail								
Request ID				Template version				•
Project			•	Declaration scope		A. Com	pany Level	
Recipient					[]	B. Divisi	on Level	
Supplier Code						C. Prod	uct Category Level	
						D. Prod	uct Level	
Deadline date		to		Product/Item Num	ber			
	(MM/DD/YYYY)			Name				
Request Status			Ψ.	Node ID				
	🔽 open requests							
Total records fou	nd: 0							Create Create
▼ No.	Recipient	CMD Contact	Deadline	date Re	quest Statu	s	Project	Declaration scope

You can specify your search with the following parameters:

Field	Description
Request ID	CMD Request ID
Project	Project name/number to which the Request is assigned
Recipient	To search for a certain Recipient click on . A modal dialog pops up displaying the Company / OrgUnit Search panel.
Supplier Code	Search for CMD Requests with a certain Supplier Code.
Deadline date from – to	You may search on deadline dates. If so, "from" would be the earlist you would want to look, and "to" is the last date in the window from which you want to return.
Request Status	You may filter on the status of the request (new, sent, awaiting acceptance, completed, rejected). Only one status may be selected per search. Check the "open requests" box if you want to return all requests that have not been closed or cancelled.
Template Version	You may search for all CMD Requests you sent out for a certain Template Version.
Declaration Scope	You may search for all CMD Requests you sent out for a certain Declaration Scope.
Product / Item Number	You may search for all CMD Requests you sent out for a certain Product or Item Number.
Name	Search for all CMD Requests you sent out and received a certain CMD with this Name.
Node ID	Search for all CMD Requests you sent out and received a certain CMD with this Node ID.

Click on "Search" to start the search and it will display all CMD Requests meeting the given parameters in the result table.

Parts of a Request

A Request tells a supplier what CMD the Requester expects to receive. The Request consists of the following:

- Set of mandatory CMD attributes (base and recipient specific data)
- Administrative data, which is Request-specific

In the request, the Requester indicates what data they are expecting. Both the Due Date and the Product/Item Number (when you request a CMD on Product Level) are required. All other information is optional.

Please do not put guidance information in the Attributes when creating a request. Requested values inserted into the assigned CMD data fields cannot be overwritten. If they are empty, CMD suppliers have the option to enter their own values.

Administrative Data

Administrative data refers directly to the Request. This is data the Requester (CMD Recipient) uses to manage the requests in their company, such as the following:

- Project, which is used to group requests. Projects are created by CDX Company Administrators and are valid companywide (in the CMD Requester's CDX company).
- CDX Company / Org-Unit ID and Contact person of CMD Requester
- Deadline Date, which is the deadline the CMD Requester expects to receive the requested CMD in CDX



CMD Request Statuses

The Request status describes one of the following:

- A new Request (status: "new")
- The request is sent to a CMD Supplier (status: "sent" = "received" for CMD Supplier)
- The CMD Requester answers a question and sends Request (status: "sent" = "received" for CMD Supplier)
- The CMD Supplier has assigned a CMD but not sent it yet (status: "attached")
- The CMD was sent (status: "waiting for acceptance")
- The CMD has been accepted (status: "completed")
- The Request receiver (CMD Supplier) rejected the request (status: "rejected")
- The Request was cancelled (status: "deleted")

Create a CMD Request

If you use Projects, the first step is to create the project in CDX. For the purposes of this section, we will assume that you either are not currently using Projects (which is optional), or that your Projects are already created.

Requests can be created by any User profile (assigned to the CDX user ID) except Read-Only.

Create a new CMD Request by either:

- Using the CMD Request > Search screen
- Clicking on the Create Conflict Mineral Declaration Request button at the bottom of the Where-Used Analysis screen, when an MDS in the result table is marked.

Both steps will open the CMD Request Detail screen.

If you want to "Create Conflict Mineral Declaration Request" for an MDS (from your Where-Used Analysis results), which contains more than one referenced MDSs with conflict minerals, a dialog pops up, where you have to select the MDS for which you want to create a CMD Request:

MDS Selection Dialog The selected MDS contains one want to create a CMD Request		s containing conflict mine	rals. Please select the MDS for which you
 Article Name 	Part/Item No.	ID / Version	Supplier
ACr98.5		11832283 / 2	IMDS-Committee / ILI Metals [18986]
Netzteil 12V	4432	904163226 / 1	OXS [900593]
PCB Controller	121212	904163225 / 1	OXS [900593]
			OK Cancel

Clicking OK will open the CMD Request Detail screen, where the following Request attributes can be detailed:

Field	Description
Recipient Data	
Recipient Company	The CMD supplier who will receive this request (required).
Supplier Code	You may enter the specific supplier code. The supplier will not be able to change the code.
Deadline Date	The date the response is due. This is a required field.
Status	Request Status
CMD Request Data	
Template Version	Drop down list of possible Template Versions the CMD should be created.

Hewle	ett Packard
Enter	orise

Field	Description
Declaration Scope	Drop down list of possible Declaration Scope the CMD should cover.
Product/Item Number	Product/Item Number is only available for a declaration on Product Level. This is a required field when Declaration Scope "D. Product Level" is required.
Declaration Period from to	You may enter a value to request a Conflict Minerals Declaration for a specific Period.
Requester Data	
Requester Company	System generated – CDX name of company generating the request and where the supplier will send the response to the request.
Organisation Unit	Drop-down list of possible Organization Units to receive response.
CMD Contact	System generated from IMDS User ID of person creating request.
Project	Drop-down list of possible project names to which the request can be assigned.

When you create a CMD Request for an existing MDS (using a Where-Used Analysis result), some fields are filled with the information already known from the selected MDS. You can change all entries, except for the system generated Requestor Company and CMD Contact.

Selecting the Recipient Company

You can search for a company registered in CDX by using the company search function is or you can send your request to a company not already registered in CDX. If you are not sure, if and how the company is registered in CDX, you have to search for the recipient company – even if the system generated an entry from a selected MDS.

🛃 CMD Request			
Search Detail			
Recipient Company *		Template version	3.02 🔹
	Not registered in CDX	Declaration scope	B. Product (or List of Products)
	Choosing this option will generate an email CMD Request	Product/Item Number *	121212
	to your supplier contact person, who may then reply to the email, complete CDX registration for their company, and submit their CMD to your company. Before using this, please search the companies registered in CDX to ensure your supplier is not already registered.		
Supplier Code		Declaration Period	from 14 to 14
Deadline date *	04/21/2015		
Status	not yet saved		
Requester Company	HP (Core Team)	CMD Contact	Gimmer, Grit
Organisation unit		Project	
			Save

Use the button to open the CDX Company Search. Already known information about the company from a selected MDS are inserted by the system to simplify your search and can be changed. If you create a CMD Request without information from an existing MDS, all fields are empty.

Select the correct recipient company and click on "Apply".



Search									
Company Name	*test			Com	npany ID		without Or	g Units	
Org Unit	t			DUN	DUNS Number				
City				Zip	Code				
Country				•					
User Name				Use	r ID		Clear	Search	
Total records four							Clear		
Total records four Co	mpany Name	Org Unit	ID	Zip Code		City	Count		
Total records four Co CDX Service Tean	mpany Name n (Japan) Test 01	CDX SERVICE TEAM (JAPAN	140	Zip Code		City			
Total records four Co CDX Service Tean	mpany Name	CDX SERVICE TEAM (JAPAN CDX SERVICE TEAM (JAPAN		Zip Code		City	Count		
Total records four Co CDX Service Tean CDX Service Tean	mpany Name n (Japan) Test 01 n (Japan) Test 02	CDX SERVICE TEAM (JAPAN	140 141	Zip Code		City	Coun		
Total records four Co CDX Service Tean	mpany Name n (Japan) Test 01 n (Japan) Test 02	CDX SERVICE TEAM (JAPAN CDX SERVICE TEAM (JAPAN	140 141 171	Zip Code 99999		City	Coun Germany Germany		
Total records four Co CDX Service Tean CDX Service Tean Test supplier001	mpany Name n (Japan) Test 01 n (Japan) Test 02	CDX SERVICE TEAM (JAPAN CDX SERVICE TEAM (JAPAN TEST SUPPLIER001	140 141 171 223	Zip Code 99999 73630	Budapest	City	Germany Germany Germany Germany		

When the CDX Company Search ends without results found, please close the window and activate in the CMD Request Detail tab "not in CDX registered" – additional fields appear in the lower area:

Note: Choosing this option will generate an email CMD Request to your supplier contact person, who may then reply to the email, complete CDX registration for their company, and submit their CMD to your company. Before using this, please search the companies registered in CDX to ensure your supplier is not already registered.

CMD Request			
Search Detail			
Recipient Company *		Template version	3.02 🗸
	✓ Not registered in CDX	Declaration scope	B. Product (or List of Products)
	Choosing this option will generate an email CMD Request to your	Product/Item Number *	121212
	supplier contact person, who may then reply to the email, complete CDX registration for their company, and submit their CMD to your company. Before using this, please search the companies registered in CDX to ensure your supplier is not already registered.		
Supplier Code		Declaration Period	from 14 to 14
Deadline date *	04/21/2015		
Status	not yet saved		
Requester Company	HP (Core Team)	CMD Contact	Gimmer, Grit
Organisation unit	[]	Project	
Company Name *	OXS	Street *	Eisenstraße 54
Zip Code *	64521	City *	Rüsselsheim
State / Province		Mailbox	
DUNS Number	12-345-6789	IMDS Company ID	900593
Country *	Germany		
Last name *	Tester	First name*	User
Telephone No. *	+49 6142 801212	Fax No.	
E-Mail Address *	testuser@mycompany.com	Repeat e-mail Address *	testuser@mycompany.com
То	testuser@mycompany.com	Cc	grit.gimmer@hp.com
Subject	Please register in CDX to provide a Conflict Minerals Declaration		
Message	You can use this to send a personal message to your supplier's cont	tact person.	

When you create a CMD Request based on an existing MDS, some fields are already filled and can be overwritten. Otherwise all fields are empty. Please fill in the required information for the company you want to send the CMD request (all fields with a red * are required). At the end of the window you can also include a note in the email that the system will send out. After saving and sending, the Company Administrator you entered will receive an email with an invitation to register in CDX and send the requested information by using the CDX system.



Completing the Request

After you finish entering all of the data, use the save button at the end of your request and the system will perform a check. After the Request has been successfully saved, you will find the following buttons on the lower right of the screen: Save Send Delete. You can delete your request, change and save again, and you need to click on Send to send your Request to your supplier. The supplier receives either your CMD Request directly in the CDX system or a system generated email asking to register in CDX and provide the requested Conflict Minerals Declaration:

Tue 31.03.2015 12:52	
CDX Mailer	
Please register in CDX to provide a Conflict Minerals Declaration	
To Bammer, Grit	
Cc Gimmer, Grit	
🕦 If there are problems with how this message is displayed, click here to view it in a web browser.	
Dear First Testuser,	
In IMDS, your MDS with the ID 0 / null contains Conflict Minerals (more information on Conflict Minerals can be found in the following paragraphs).	
This email was generated by CDX on behalf of Grit Gimmer, CDX Service Team (Germany). If you are in doubt about the authenticity of this email, please contact Grit Gimmer. A personal message from Grit Gimmer might be available at the end of this email.	
CDX Service Team (Germany) or their client is now legally required (under Section 1502 of the U.S. "Dodd-Frank Wall Street Reform and Consumer Protection Act") to report annually on the origins of Tin, Tungsten, Tantalum, and Gold, (3TG) or their derivatives within their products and the products they contract for production, regardless of where these minerals originated. The objective of this 'Conflict Minerals Act' is to reduce funding of extreme violence within the Democratic Republic of the Congo (DRC) and adjoining countries by eliminating unvertified sourcing from this region. TestCompany is required, as their supplier, to support this activity. Their company records identify you as the contact at your company for this type of support.	
CDX Service Team (Germany) has elected to use the EICC-GeSI Conflict Mineral Smelter Initiative (CFSI) Conflict Mineral Reporting Template (CMRT) IPC-1755 data exchange format to collect Conflict Mineral Declarations (CMD). HP's Compliance Data Exchange (CDX) is the supplier reporting data collection service for this information. If you do not have a completed CMRT, CDX will guide you through the creation process. Your company can use CDX to create or upload your CMRT, and provide the required information to this recipient client, without direct monetary cost to your company.	
Please complete your submission by 2015-04-07. Creation of the CMD will require gathering information from within your company and possibly from your suppliers, so you are encouraged to begin the process as quickly as possible. To simplify reporting, CDX Service Team (Germany) pre-registered TestCompany in CDX and created a CMD Request for your company. As the identified contact, you are the CDX Company Administrator responsible to ensure this submission is provided.	
Personal message from Gimmer, Grit ("Please register in CDX to provide a Conflict Minerals Declaration")	
Important: For security purposes the three links below can only be used once, and expire by the submit-by date above.	
To complete registration and begin activation, please click the following link: <u>activate my company</u> If your company is already registered in CDX, please click the following link: <u>locan CDX</u> If you believe receiving this notification is an error, please click the following link: <u>remove my company</u>	
Once your registration is activated:	
 Login and from the Toolbar select the InBox deformed to the menu Functions InBox). Select CMD Request. in the resulting screen click Search Q (on the right) to locate the client request. 	Ŧ

Follow-up on your Requests

To see the status of a CMD Request, you can use the CMD Request Search function. As described <u>above</u>, the Search Tab layer also represents the CMD Request Outbox. Here you can search for your own CMD Requests sent to suppliers and look up their details (including the status).

🛃 CMD Request						
Search Detail						
Request ID			Template version			•
Project		•	Declaration scope	A. Compan	v Lovel	
-		•		A. Compan	y Level	
Recipient				B. Division	Level	
Supplier Code				C. Product	Category Level	
				D. Product	Level	
Deadline date	t t		Product/Item Number			
	(MM/DD/YYYY)		Name			
Request Status			Node ID			
		· · ·				
Total records fou	✓ open requests nd: 37					Create A Search
						🕒 Create 🆓 Search
▼ Request	ID Recipient	CMD Contact	Deadline date	Request Status	Project	Declaration scope
0	235 not in CDX - TestCompany	Testuser , First	04/07/2015	sent	Ship 2000	B. Product (or List of Pro 🔺
1	234 not in CDX - MyTest	Grit , Gimmer	04/07/2015	sent	Ship 2000	B. Product (or List of Pro 📰
2	233 OXS	Gimmer , Grit	04/07/2015	new	Ship 2000	A. Company
3	232 not in CDX - Meton Gold	Li , Mike		new	Ship 2000	C. User defined
4	231 not in CDX - Galus Tin	Zhang , Lisa	03/31/2015	sent	Ship 2000	B. Product (or List of Pro
5	227 not in CDX - TS Test Compan	aaa , aaa	03/30/2015	new	Ship 2000	A. Company
6	224 not in CDX - OXS Ltd	Hermann , Klaus	04/09/2015	sent	Triple-E	A. Company
7	222 not in CDX - OXS Datensyste	Schaefer , Tjhomas	03/24/2015	sent	S.1234	B. Product (or List of Pro 👻
•			11			- F

To find received CMD related to your CMD Request, you have to log-on the CDX system, because CMD requests can only be received in the CDX system.

Technical Background

IMDS CM Analyzer establishs a link between IMDS and CDX companies

Before sending out the CMD request, the existence of the company in CDX has to be validated. This is done automatically when the IMDS CM Analyzer accesses CDX the first time in this session (e.g. clicking on the Company Lookup icon the first time, a login dialog is displayed asking the user to enter his CDX credentials (user id and password)).

This data and the IMDS company id is passed to an "Authentication" web service that first validates that the user is a valid CDX user (e.g. that has accepted the ToU, the password is not invalid, …). Next, this web service validates that the given IMDS root company ID is not already referenced (used) in another CDX root company. When both checks are passed, the web service will return the CDX root company id, allowing the IMDS CM Analyzer to validate that this id is not already referenced in any other IMDS root company.

If both references are valid, the user can continue to work and a link is built between the company and user objects of IMDS and CDX. In all other cases, the user cannot use the CMD Request module until his/her company administrator has resolved this problem manually together with the <u>IMDS/CDX service desk</u>.

After successful login, the CDX company name and user name should be displayed to the user to ensure the user logged in the correct company. This is useful for users of service providers.

Looking up the Recipient Company

The request supplier company is defined / searched by clicking on the Company Lookup icon on the detail tab layer. The Company Lookup dialog will be opened with the search fields name, street, zip, city prefilled with the data of the MDS supplier to ease the search for the company. The search itself is executed on the CDX database (not the IMDS database) by using an appropriate web service call. The search internally uses the Jaro Winkler similarity search instead of exact matching regarding the company name.

If the user identifies the CMD request supplier company in CDX, an internal CMD request is created as if a CDX user would create such a request in CDX.

If user is not able to find a company in CDX, an external CMD request will be created similar to today's CDX CMD Request concept. In both cases, the communication is established by an appropriate web service. The data necessary for the company registration in CDX can be prefilled using IMDS company data available in chapter "Recipient data" while the user information can be extracted from the contact in chapter "Supplier data" of the MDS.

All CMD Request data will be stored in the CDX database.

The email which is send to the request supplier company describes the reporting process and the link between IMDS and CDX to avoid confusion.

The sender and the recipient of the CMD request are informed about status changes, and other information in CDX as configured in the CDX user settings.

Installation

The IMDS CM Analyzer is an application service developed in the Java programming language.

For that reason, a Java Runtime Environment needs to be installed on each client PC in order to run the IMDS CM Analyzer. This software can be downloaded for free from the Java site on the Internet. Since this is a popular language, you may already have it installed on your computer for other applications. To check if you have a version already installed, on a Windows environment, go to Start > Settings > Control Panel > Programs > Uninstall a Program and look for an entry similar to "Java (32-bit)". Another method is to see if there is a Java icon (Java) in your Control Panel (Start > Settings > Control Panel > Programs). You must be in the Classic View of the Control Panel to find it.

If Java Runtime is already installed, go directly to chapter "Launch the IMDS CM Analyzer." If you don't already have Java Runtime, you will need to install it. The following instructions and views are for Java 8 Update 31 from the Java site.

Installation of the Java Runtime Environment

Hint: Depending on your PC configuration and operating system, you might need **Administrator permissions** to install software. In this case, please **contact your system administrator** to execute the installation.

Important: In case of problems installing the Java runtime software please contact your internal IT support. Please understand that our service desk cannot provide any installation support because we don't have access to your PC and infrastructure.

Start your web browser (e.g. Internet Explorer) and go to the URL http://www.java.com/en/download

Here you can download the actual Java Runtime Environment for free by clicking on "Free Java Download:"

الله المعالم) (الله المعاني) (المحالي) (المح	Search Q
All Java Downloads	Free Java Download
If you want to download Java for another computer or Operating System, click the link below. <u>All Java Downloads</u>	Download Java for your desktop computer now! Version 8 Update 31 Free Java Download
Report an issue	
Why am I always redirected to this page when visiting a page with a Java app? • Learn more • Report an issue	What is Java? > Do I have Java? > Need Help? Why download Java? Java technology allows you to work and play in a secure computing environment. Upgrading to the latest Java version improves the security of your system, as older versions do not include the latest security updates. Java allows you to play online games, chat with people around the world, calculate your mortgage interest, and view images in 3D, just to name a few.
	Java software for your computer, or the Java Runtime Environment, is also referred to as the Java Runtime, Runtime Environment, Runtime, JRE, Java Virtual Machine, Virtual Machine, Java VM, JVM, VM, Java plug-in, Java plugin, Java add-on or Java download.
<u>Select Language</u> About Jay Privacy Terms of Use Tra	

Agree on the end user license agreement and "Start Free Download." Depending on the internet browser you might get a security warning.



Please start the installation with "Run:"



In the next dialogue screen, you start the installation by pressing the "Install" button.



After a successful installation you will receive the dialog:

Java Setup - Complete	x
Java" ORAC	ILE [.]
Vou have successfully installed Java	
You will be prompted when Java updates are available. Always install updates to get the latest performance and security improvements. More about update settings	
The security level has been set to a minimum value of High. More information	
When you click close, your browser will be opened so you can verify that Java is working.	
Back	e

Click on "Close". If you don't want to get automatical Java updates, please follow the provided link and change your settings.

Start the IMDS CM Analyzer

Start the IMDS CM Analyzer by clicking on the link: <u>http://www.mdsystem.com/webstart/cma/cma.jnlp</u>

The software Java Webstart is launched automatically in the background. It searches for the latest version of the IMDS CM Analyzer and downloads it to your PC.

Starting application	×
Downloading application.	(lift)
Location: http://199.42.248.74	Cancel

If your company uses a proxy server (firewall) to access the Internet, you might get prompted for your proxy User ID and proxy password.

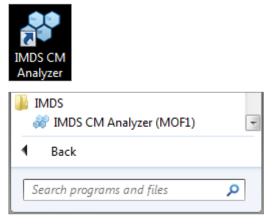
Launching the IMDS CM Analyzer the first time you get this security warning:

Do you want to run this application?						
	4	Name:	IMDS CM Analyzer			
2	€	Publisher:	Hewlett-Packard GmbH			
6		Location:	http://199.42.248.74			
			icted access which may put your computer and personal ion only if you trust the location and publisher above.			
Do no	t show this	again for apps	from the publisher and location above			
i	<u>M</u> ore Inform	nation	Run Cancel			

To use the IMDS CM Analyzer, you have to permit the execution of the software by pressing "Run."



During the first startup, Webstart will automatically create an IMDS CM Analyzer icon on your desktop and a menu entry IMDS | IMDS CM Analyzer.



You can launch the IMDS CM Analyzer by double clicking on that icon or using the menu entry.

Potential Problems

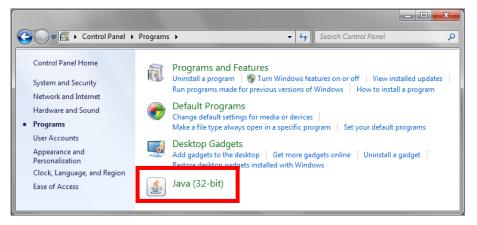
Manual Entry of a Proxy Server

The IMDS CM Analyzer is using the Java Webstart software to ensure that you are working with the latest version of the IMDS CM Analyzer. For this reason, Java Webstart needs to access the IMDS server over the Internet.

Most companies are using a proxy server to provide access to the Internet. Normally, Webstart reads the required proxy settings from an installed web browser. This process might fail for some browsers (typically only for uncommon ones) or if your company uses an automatic configuration script instead of proxy server settings.

In this case, the proxy settings must be entered manually in Webstart.

Launch Java Webstart via : Start > Control Panel > Programs > Java :



The Java Control Panel will start.



🛃 Java Control Panel
General Update Java Security Advanced
About
View version information about Java Control Panel.
About
Network Settings
Network settings are used when making Internet connections. By default, Java will use the network settings in your web browser. Only advanced users should modify these settings.
Network Settings
Temporary Internet Files
Files you use in Java applications are stored in a special folder for quick execution later. Only
advanced users should delete files or modify these settings.
<u>S</u> ettings <u>Vi</u> ew
Java in the browser is enabled.
See the Security tab
OK Cancel Apply

Click on the button "Network Settings:"

Network Settings					
Override browser proxy settings.					
Use <u>browser settings</u>					
Use proxy server					
Address: myproxy Port: 80 Advanced					
Bypass proxy server for local addresses					
Use automatic proxy configuration script					
Script location;					
© Direct connection					
OK Cancel					

Check the button "Use proxy server" and enter the name of your proxy server and port in the fields HTTP proxy and HTTP port.

Advanced Network Settings									
Туре	Proxy Address		Port						
Http:	myproxy	:	80						
Secure:		:							
Ftp:		:							
Socks:		:							
Use same proxy server for all protocols									
Do not	use proxy server for addresses be	ginr	ning with						
			*						
Use semicolon (;) to separate entries.									
OK Cancel									

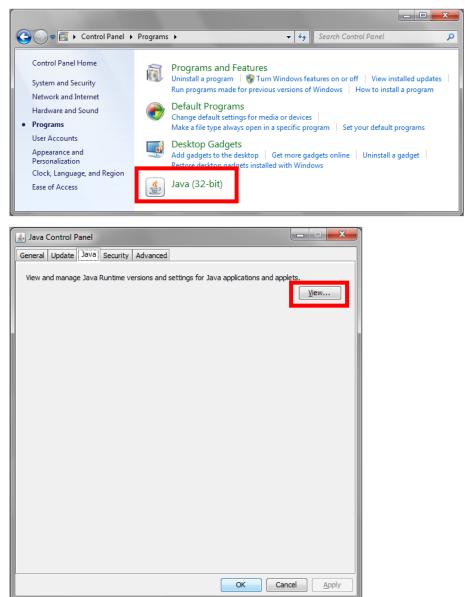
You must confirm the changes by pressing "OK" and the exiting Webstart.

Hint: You can get these settings from your system administrator or read it in your configured web browser. (E.g. IE 11.0: menu "Tools" > "Internet options" > tab folder "Connections" > button "LAN Settings" > Proxy Server button "Advanced").

Using the Correct Java Runtime Environment

Using the IMDS CM Analyzer with older Java Runtime Environments might cause problems. Graphical elements such as menus, buttons or text fields do not react in the proper way. If you experience similar problems, please check the described Java Webstart settings.

Launch Java Webstart via : Start > Control Panel Programs > Java and choose "Java:"



In the Java Settings, click on View and you will be on the tab "User."



	time Enviror	nment Settings			
Platform	Product	Location	Path	Runtime Parameters	Enabled
1.8	1.8.0_31	http://java.s	C:\Program Files (x86		V
			Find	Add	Remove

Make sure that only the Java Runtime 1.6.0_04 or higher is checked. Deactivate all lower versions. You must confirm the changes by pressing "OK" and exiting Webstart.

File imdsloader.jnlp cannot be loaded

After successful installation of Webstart, the <u>http://www.mdsystem.com/webstart/cma/cma.jnlp</u> cannot be loaded.

This can have several root causes:

Temporary memory (Cache) holds old files

Empty your internet browser cache, as well as your Webstart cache.

Browser cache

e.g. Microsoft Internet Explorer: Tools > Internet Options > General > Delete (Browsing history)

Internet Opti	ons					?	x
General S	ecurity	Privacy	Content	Connections	Programs	Advance	ed
Home pag	e ——						.
II 🐟	To c <u>r</u> ea	te home	page tabs,	type each add	lress on its (own line.	
	I					*	
						-	
	[Use <u>c</u> u	rrent	Use de <u>f</u> ault	Use n	ew tab	
Startup -							
🔘 Star	t with tal	os from t	ne last ses	sion			
③ Star	t with <u>h</u> o	me page					
Tabs							
Change	how we	bpages a	re displaye	d in tabs.	Ŀ	abs	
Browsing	history -						.
	temporar formation		story, cool	kies, saved pas	swords, an	d web	
🔽 Dele	te bro <u>w</u> s	ing histor	ry on exit		_		
			(<u>D</u> elete	<u>S</u> et	tings	
Appearan	ice —						
Colo	ors	Lang	juages	Fo <u>n</u> ts	Acce	ssibility]
			Ok	Ci	ancel	Apply	



Webstart cache

Launch Java Webstart via : Start > Control Panel > Programs > Java:

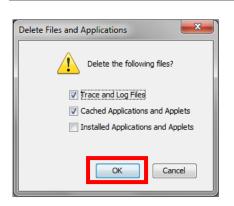


Choose "Settings" for Temporary Internet Files:

🛃 Java Control Panel	X
General Update Java Security Advanced	
About	
View version information about Java Control Panel.	
	About
Network Settings	
Network settings are used when making Internet connections. By default, Java will settings in your web browser. Only advanced users should modify these settings.	use the network
Netw	ork Settings
Temporary Internet Files	
Files you use in Java applications are stored in a special folder for quick execution la advanced users should delete files or modify these settings.	ater. Only
Settings	<u>V</u> iew
Java in the browser is enabled. See the Security tab	•
ОК Са	ncel <u>A</u> pply
Temporary Files Settings	
Keep temporary files on my computer.	
Location	
Select the location where temporary files are kept:	
Jsers\gimmer\AppData\LocalLow\Sun\Java\Deployment\cache	
Disk Space	
Select the compression level for JAR files: None 👻	
Set the amount of disk space for storing temporary files:	
32768	MB
Delete Files Restore Defi	aulto I
Delete Files	aurus
ОК	ancel







Personal Firewall blocks access

If you have a Personal Firewall installed on your PC, this must be set up to allow access to the Java process into the internet (the IMDS CM Analyzer runs with such a process).

No IMDS CM Analyzer icon on your desktop

In case no IMDS CM Analyzer icon was created on your desktop, follow these two steps:

- 1. Go to Start > Control Panel > Programs > Java. The Java Control Panel will start.
- 2. Click on the "View" button from the Temporary Internet Files section

You can install a shortcut on your desktop from this window by right clicking to get the pop-up menu, and then "Install Shortcuts:"

ا 🛓	Java Cache Viewer								x
Sho	ow: Applications	7	Installed Size: 0.0 KB - Cached Size: 41457 KB						
	Application		Vendor		Туре	Date	Size	Status	
	IMDS CM Analyzer	Run Online Run Offline		kard GmbH	Application		8518 KB		
				kard GmbH	Application		8535 KB	-	=
			hortcuts						
		Delete						Clos	e
		Show JN	ILP File						
		Go to H	omepage	is enabled.					



Further Support

For questions concerning all administrative and technical features we provide an email address:

mds-solutions@hpe.com

The IMDS CM Analyzer support team will post a reply to your questions as soon as possible.

Contact information

EntServ Deutschland GmbH IMDS Advanced Solutions Hewlett-Packard-Str. 1 61352 Bad Homburg Germany

www.hpe.com

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A4-cmanalyzer-manual_en, January 2017