



HxGN EAM OpenCAD

Q/A

Module	Question	Answer	Notes / Videos
OC Utility	How to upload a drawing?	<p>HxGN EAM manages drawings as documents.</p> <p>Uploading a drawing start from OC Utility which is responsible of ingesting a new drawing and making changes to existing drawings.</p> <p>From inside OC Utility you have to select the desired EAM entity (Asset / Position/ System / Locations) in order to initiate the upload.</p>	How to upload a drawing - OpenCAD Q&A
OC Utility	How to link the drawing to the Open Dashboard?	<p>Two scenarios are available:</p> <p>1- Ingesting the drawing against the Permit site equipment/location and then enabling the PTW custom field in the document record view . (It is helpful creating a Class with CF associated with)</p> <p>2- Ingesting the drawing against a document and then enabling the PTW custom field in the document record view</p>	How to link a drawing to the Open Dashboard - OpenCAD Q&A
HxGN EAM - basic	How to delete a drawing in EAM?	Accessing to EAM document screen- (Menu Administration -> Setup -> Documents)	
OC Utility	Is it possible to merge multiple autocad drawing (dwg) into 1 drawing?	This is typically CAD work. You can do that by using OC APP (it does not require an EAM login) through copy and paste utility (OC APP -> OC utility)	
OC Utility	How to change the colors of the drawing (make the drawing black/white, e.g. monochrome as a default)?	<p>OC Utility provides drawings to HxGN EAM as SVG files The visualization of the SVG depends by CTB configuration as AutoCAD does.</p> <p>CTB configuration by default is OC-STANDARD. (color to color) The use can change it by applying OC-MONOCHROME to get the drawing visualized black and white.</p> <p>This setting can be applied globally by setting SVGCTB install parameter. You can do it from OC Utility as well.</p> <p>Using the CTB configuration (button at the left side of the hand button in the ribbon)</p>	How do you change the color of the drawing? - OpenCAD Q&A
HxGN EAM - basic	How to define which equipment are not tagged?	<p>Auto-discovery capability allows to get the list of EAM equipment tagged in the corresponded drawing. This result is available through an OpenCAD custom grid. The screen is OUE001. It is part of OpenCAD menu. You can make it available in any other HxGN EAM menu as needed.</p> <p>Here below the SQL statement for creating a dataspy founded on auto-discovery It is based on Org «01» and equipment as «position»obj_code IN (select OBJ from OCAD_AE_ALL_OBJwhere ORG='01' and OBJ_OBTYP='P' and doc_code is NULL)</p>	

OC Utility	How to tag the missing equipment efficiently?	From OC Utility you can use SMART TAG. The most effective way is to create a specific dataspy (filtered on not tagged location). Tagged location are constantly provided by auto-discovery capability. See the example of dataspy created on test.	
OC Utility	How to find the drawing in the OC utility app?	by documents or by equipment and then you can get the drawings associated with	How do you find a drawing in the OC Utility? - OpenCAD Q&A
OC Utility	How to modify the drawing?	through OC Utility, by selecting the drawing and then activating the command EDIT drawing	
OC Utility	What does auto discovery do?	Recognizes tag (as text) in the drawing which are consistent with EAM equipment (location specifically for Vopak). Finally, it does the link between them and allows the PTW dashboard to visualize the permit and creating flowers on top of that	
HxGN EAM - basic	How to associate 1 drawing to multiple positions? Can 1 drawing be linked to multiple positions that are available in the drawing automatically?	Yes, it is automatically provided by the auto-discovery capability of OpenCAD. Considering the meaning of "available in the drawing" as "tagged in the drawing" the answer is 100% correct. In addition to that, it is also possible to associate the same drawing to multiple EAM equipment by using the EAM document tab . It is a standard EAM functionality to associate the same document with multiple entities.	
OC Utility	Are revisions or changes in drawings logged or visible by the OC utility app?	Compare functionality is not provided yet, so drawing changes are not visible. However, OC Utility does have versioning capability.	
OC Utility	What if OpenCAD drawings were ingested before the adoption of the Cross-Browser version?	OpenCAD Utility can elaborate the existing EAM drawings massively. You can group a few of them instead of all of them and let OC utility do the process. The process consists of running auto discovery, syncing spaces and workspaces, and providing SVG files to be visualized within EAM.	
OC Utility	Why I do not see the SMART TAG icon into the toolbar of OpenCAD Utility?	SMART TAG capability is allowed by the following rules: <ul style="list-style-type: none"> - It is part of the editing drawing process, so you cannot have it if you are just viewing the drawing - It is allowed by EAM OpenCAD Security, in particular by the custom field at the User Group and User Setting level "Enable Smart Tag (Y/N)" If the field is not populated, it behaves as YES. User Group setting prevails on the User Setting. 	

OC Utility	What are the EAM grids that I might be applying to SMART TAG? Can I create a user grid as well?	Smart TAG capability uses standard EAM grids (Asset/Position/Location/System) but also grids that are associated with the Cloned screen. Plus you can create EAM custom grids to be able to associate them to smart tag features. For allowing the user group to be able to access those grids, you have to enable SMART TAG through OpenCAD Function Security	
OC Utility	Would it be possible to get the Product Release Note for the updated version of the OC Utility?	Yes, of course. You may access to the document by accessing HxGn EAM ALL documentations https://docs.hexagonal.com/p/EAM	-
HxGN EAM Navigation & Visualization	I'm getting an error with a particular drawing. When I try to visualize it through the OpenCAD XBrowser tab, I get a missing parameter error. Am I missing something here?	The file that you're trying to visualize contains a special character that prevents the proper recognition of that particular document by EAM. It might happen when the document/drawing has been ingested in the system before adopting OpenCAD Cross-Browser. Special characters not allowed are : # \$ & % ' + You can quickly fix the error by downloading the drawing then removing the existing document and finally re-ingesting it via OC Utility. The current OC Utility recognizes if the file name contains characters not allowed and then removes them before ingesting the file.	
HxGN EAM Navigation & Visualization	Is it possible to leverage OpenCAD tab for displaying equipment in the PTW Screen?	Yes, it is possible. Here below the step by step procedure: 1- No installation required 2- Setup consists of the following : - OpenCAD Screen Parameters: Provided OOTB - OpenCAD Query : Provided OOTB (OC1206W - designed for Location) You can make changes to the query as needed. - OpenCAD Custom Tab on PTW Screen: Provided OOTB 3- Ingest a drawing and make sure to tag the equipment / Location properly 4- Raise a PTW against that piece of equipment 5- Go to EAM Menu-> Safety-> PTW for that particular piece of equipment and then finally click onto OpenCAD tab. The drawing shows up and finds the equipment through a red circle on it. 6- You can take advantage of all other features including objects grid and WO grid as well.	<pre> QUERY OC1206W DESIGNED FOR EQUIPMENT : SELECT PTW_OBJECT_ORG ORG, PTW_OBJECT OBJ FROM R5PERMITTOWORK WHERE PTW_CODE = 'permittowork' AND PTW_ORG = 'organization' QUERY OC1206W DESIGNED FOR LOCATION : SELECT PTW_LOCATION_ORG ORG, PTW_LOCATION OBJ FROM R5PERMITTOWORK WHERE PTW_CODE = 'permittowork' AND PTW_ORG = 'organization' </pre>

<p>HxGN EAM Navigation & Visualizati on</p>	<p>Is it possible to leverage OpenCAD tab for displaying equipment in the Non Conformity Screen?</p>	<p>Yes, it is possible. Here below the step by step procedure:1- No installation required2- Setup consists of the following :- 2.1 OpenCAD Screen Parameters: From: OpenCAD Cross-Browser menu Setup OpenCAD screen parameters: Add a new record• Obj Parameter(nonconformity) and Org Parameter (organization) identify the current element passed by EAM as parameter in the request page. Tip: please use the EAM Screen Designer functionality to get the exact Field names. • Screen Code (OSNCHD) is the code of the EAM screen to which we intend to add the OpenCAD functionality. • Query code is the code of the EAM Query (of course, previously created) to retrieve the above parameters. • User Screen is the User screen code (OSNCHD)- 2.2 OpenCAD Query : From: Administration menu Start Center Setup Queries: Add a new query (see the statment in the column on the right)- 2.3 OpenCAD Custom Tab on Non Conformity : To be added as shownFrom: Administration menu Screen Configuration Screens: select the EAM screen then click the 'Custom Tabs' tab and insert the OpenCAD custom tab.URL must be::appurl/eamdwg/opencadnofp.jsp?user=:user&org=:org-2.4 Assign the Screen Permission in particular regarding to OC Tab3- Ingest a drawing and make sure to tag the equipment properly4- Raise a Non-conformity against that piece of equipment 5- Go to EAM Menu-> Equipment-> Additional features-> Non Conformity for that particular piece of quipment and then finally click onto OpeCAD tab. The drawing shows up and finds the equipment through a red circle on it.6- You can take advantage of all other features including objects grid and WO grid as well.</p>	<p>Note: in the SELECT clause, the two parameters must always have ORG and OBJ alias. Instead, please use in the WHERE clause the Parameters as previously defined in the OpenCAD Screen Parameters QUERY OC1207W DESIGNED FOR EQUIPMENT :SELECT NCF_ORG ORG, NCF_OBJECT OBJ FROM R5NONCONFORMITIESWHERE NCF_ORG = 'organization' AND NCF_CODE='nonconformity' White Paper available through HxGn EAM ALI documentations -> https://docs.hexagonal.com/p/EAM</p>
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<p>HxGN EAM Navigation & Visualization</p>	<p>Is there a way to visualize equipment based on their conditions or non conformities?</p>	<p>Yes, it is possible and nately supported by OpenCAD. If you are interested in getting equipment displayed with thier conditions, you can use the object grid that has the ability to color coding equipment based on EAM data.However, if you have to visualize non conformities inside a drawing, you must have to set it up accordingly. Here below the step by step:- Creating a Non-Conformity GridStep 1) From: Administration menu Screen Configuration Views: Create a new View.The SQL Statement of the View contains all the columns we want to display in the grid.Of course, it must contain the Object Code, the Object Org and the Filename.Step 2) From: Administration menu Screen Configuration Grid Designer: Create a new Grid.The Grid is based upon the View previously created (FROM Clause).Please pass the parameters as indicated in the WHERE Clause.Step 3) From: OpenCAD Cross-Browser menu Setup Function Security Select a User Group then click the 'Custom Grid' tab to add a new record:</p>	
<p>OC Utility</p>	<p>Loading the drawing in EAM is very slow. How can we identify the main contributors to the drawing size and how can we reduce the drawing size?</p>	<p>The performance of displaying a drawing in EAM is based on the file dimension. Ensuring consistent CAD data quality is a process that OC Utility users must consider carefully to ingest drawings that have to be effectively displayed by EAM end users.The main contributors to the drawing size are:- Hatch for getting zones or entities colored (as solid or even worse as pattern)- Xref attached to the drawing - not used blocks - used blocks but useless for the scope of the visualizationThe size of SVG is impacted by the usage of a block. If not essential for the visualization remove the blocks from the drawing.After removing the blocks the DWG file will be reduced a little bit but the SVG will be created more quickly and its size will be reduces significantly.All of these tasks can be performed by using OC APP, before uploading the file and running the auto-discovery.The process is easy and takes a couple of minutes.1- Open the DWG via OC APP (red icon on the desktop, not the white utility icon)2- Right-clicking on the toolbar -> File -> Save as 3- Select the file format SVG. OC App will create the SVG in the same folder where the dwg is located.4- Understand the SVG size5- Open the SVG using your browser. you can see what is causing a delay in displaying.</p>	