

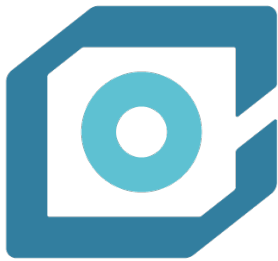


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OPENCAD

HxGN EAM Reality Viewer Activation and Technical Guide

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Resources

Here below you may find the link for accessing OpenCAD resources:

Documentation Site :

<https://docs.hexagonali.com/p/opencad>

Hexagon University:

<https://universityhexagonali.360learning.com/paths/6515b495f8606307675dccc/home>

OpenCAD videos

<https://vimeo.com/showcase/10666314>

About this guide

This guide allows to get acquainted with the new reality Viewer and describes the main steps to activate and have it up and running within HxGN EAM.

Introduction

The following are the considerations for the activation of HxGN EAM Reality Viewer.

- The hardware and software requirements are based on the hardware and software requirements of HxGN EAM;
- HxGN EAM Reality Viewer is indeed compatible to either HxGN EAM for Oracle or MS SQL Server;
- HxGN EAM Reality Viewer has been part of EAM since version 12.1.1 and is deployed in the Cloud. It is not available for on-premises installation.

Product activation

HxGN EAM Reality Viewer

- Insert the ORV Key (*CDKEYORV install parameter*). The KEY is provided by Order Management and Provisioning teams as an e-shipment (via email).
- **If you have already activated OpenCAD Cross-Browser or OpenCAD BIM, please do nothing.** If you have not yet activated 'OpenCAD Cross-Browser' or 'OpenCAD BIM' add the 'OpenCAD Reality Viewer Activation' screen to a User Group: 'Administration' menu | 'Security' | 'User Groups'. Then select a User Group and click the 'Menus' Tab. Search for the 'OpenCAD Reality Viewer Activation' screen from the 'Available Screens' then drag and drop it in the Menu Details. OpenCAD Reality Viewer screen uses APPURL install parameters and then it is recommended to check its value.
- Click the activation button in the OpenCAD Reality Viewer Activation screen.

EAM Reality Viewer Setup

See the dedicated chapter in the User Guide

OpenCAD Utility App

HxGN EAM Reality Viewer does not use OpenCAD UtilityApp for providing drawings within EAM. The reality capture deliverables, which can be used within HxGN EAM, are stored in the Leica Truview account, which is required to make the EAM integration fully operational.

Technical aspects which have impacts with HXGN EAM

HxGN EAM Reality Viewer will add these elements to the EAM database.

Tables

| Name | Description |
|--------------------|---|
| OCAD_R5EXTMENUS | List menu items of R5 UserGroup installed in EAM by OpenCAD |
| OCADTRU_TKNS | ORV Token |
| OCADTRU_GEOTAGS | Contains the getogas information. |
| OCADTRU_JOIN | Reference between ORV and EAM |
| OCADTRU_CFGLEVEL | Contains the level of ORV configuration Tenant/Organization |
| OCADTRU_CFGGEOTAGS | Contains the configuration of the reference between ORV and EAM |
| OCADTRU_CFGEXCEL | Contains the additional EAM field for Excel file |

Views

| Name | Description |
|--------------------|---|
| U5OCADTRU_JGRIDOBJ | ORV U5View Grid - EAM Objects / GeoTags |
| U5OCADTRU_JGRIDOWO | ORV U5view Grid - EAM Work Orders / GeoTags |

Queries

None added.

Queries and Custom Grids OpenCAD Parameters

The table below shows the list of parameters that have been used throughout the software's development, particularly for building EAM queries and EAM Custom Grids.

| Name | Description | Custom Grid EAM | Query EAM |
|----------|------------------------|-----------------|-----------|
| pSiteId | Current Site ID (ORV) | ● | ○ |
| pSetupId | Current Setup ID (ORV) | ● | ○ |

EAM Custom Grids

Below are the custom grids that lists the EAM objects and Truview geotags.

| Default code | Description |
|--------------|---------------------------|
| OUC400 | ORV Join |
| OUC401 | GeoTags and Setups |
| OUC402 | GeoTags |
| OUC420 | EAM Objects / GeoTags |
| OUC421 | EAM Work Orders / GeoTags |

| | |
|--------|--|
| OUC430 | EAM Objects / GeoTags filtered on Setup ID |
| OUC431 | EAM Work Orders / GeoTags filtered on Setup Id |

User Defined Screens

Below are the User Defined Screen which have been involved with Reality Viewer.

| Default code | Description |
|--------------|-------------------|
| Ouu004 | Function Security |
| Ouu005 | Custom Grid |

Custom Tabs

Reality Viewer will add custom tabs to the following screens:

| Screen | Tab | Url |
|--------|----------------|--|
| OSOBJA | Reality Viewer | :appurl/eamdwg/DEPLOY_OCADTRUTAB.jsp?user=:user&org=:org |
| OSOBJP | Reality Viewer | |
| OSOBJS | Reality Viewer | |
| OSOBJL | Reality Viewer | |
| WSJOBS | Reality Viewer | |

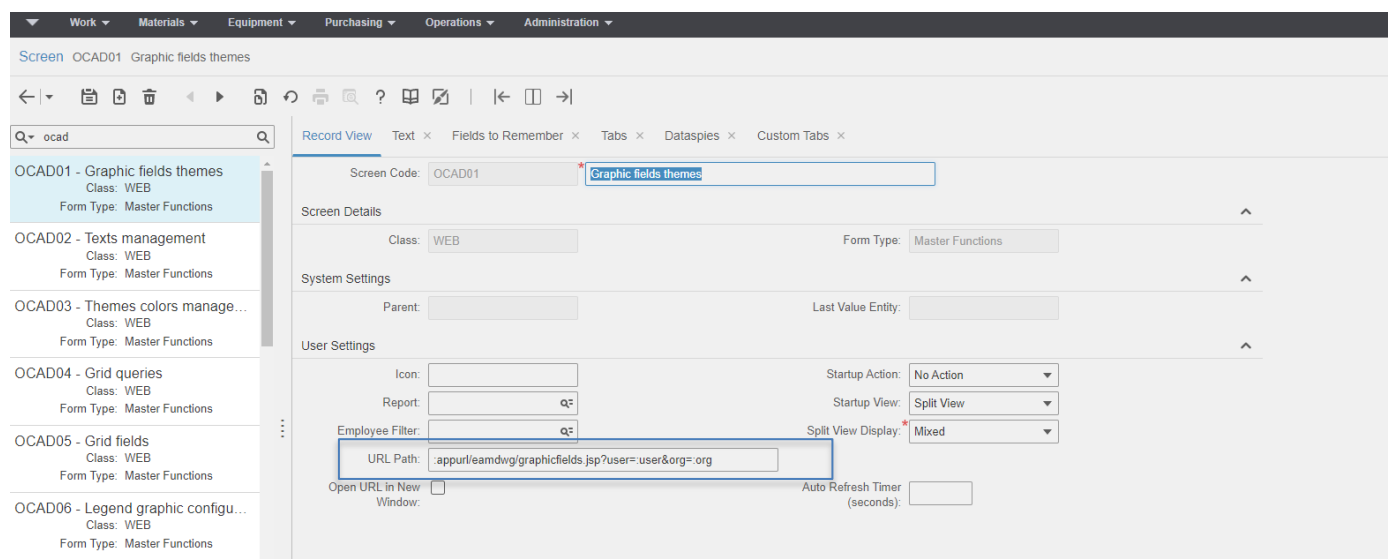
Custom Fields

| Entity | Name | Description | Content | Type | Association |
|--------|----------|-------------|---------|--------------------|-------------|
| Object | OCTRUSID | ORV-SiteID | String | Code + Description | OBJ |

Note: The activation creates the custom field; the association phase to the OBJ entity must be performed manually.

Custom Screens

Please follow the instructions below in order to view or modify the screens (as user R5):
From ADMINISTRATION menu >> SETUP >> SCREENS >> NEW RECORD (+) or RECORD VIEW



The screenshot shows the 'Screen Details' configuration for 'OCAD01 - Graphic fields themes'. The 'URL Path' field is highlighted with a blue box and contains the text: `:appurl/eamdwg/graphicfields.jsp?user=:user&org=:org`. Other fields include 'Screen Code: OCAD01', 'Class: WEB', 'Form Type: Master Functions', 'Parent', 'Last Value Entity', 'Icon', 'Report', 'Employee Filter', 'Startup Action: No Action', 'Startup View: Split View', 'Split View Display: Mixed', 'Open URL in New Window', and 'Auto Refresh Timer (seconds)'.

| Screen | Description | Url :appurl/eamdwg |
|--------|-----------------------------------|--|
| OTRU01 | OpenCAD Reality Viewer Activation | ../tru_activation.jsp?user=:user&org=:org |
| OTRU02 | ORV-Truview Authentication | ../DEPLOY_TRUPARAMS.jsp?user=:user&org=:org |
| OTRU03 | ORV-Dashboard | ../DEPLOY_OCADTRUDSH.jsp?user=:user&org=:org |

Install Parameters

| Code | Description | Group |
|----------|---|-------|
| ORVCONFI | Define the configuration level of OpenCAD Reality Viewer. ORG for defining a configuration for each Organization. TENANT for defining a single configuration valid for the Tenant | ORV |
| CDKEYORV | The OpenCAD Reality Viewer Key is set during installation. This key must be valid in order to access OpenCAD ORV module. | ORV |
| ORVRELNU | OpenCAD ORV release number. | ORV |

Eam Database Oracle - Function, Stored Procedure, Triggers

Functions

| | Function |
|----|--------------------------------|
| 1 | CADCHECKOCADACTIVE |
| 2 | CADCHECKEXISTINGCOLUMN |
| 3 | CADCHECKEXISTINGTABLE |
| 4 | CADTABLECOLUMN |
| 5 | CADTABLECOLUMNPLUS |
| 6 | CADR5TABLES |
| 7 | CADCHECKEXISTINGVIEW |
| 8 | CADUSERVIEWS |
| 9 | CADR5VIEWS |
| 10 | CADR5USERVIEWS |
| 11 | CADCALCTABUT |
| 12 | CADCHECKEXISTINGTAB |
| 13 | CADCUSTOMFIELD |
| 14 | CADCUSTOMFIELDASSOCIATION |
| 15 | CADCUSTOMFIELDVALUEDESCRIPTION |
| 16 | CADENABLECUSTOMGRID |
| 17 | CADFORMATFORSQL |
| 18 | CADINSERTBOILERTEXT |
| 19 | CADQUERY |
| 20 | CADQUERYFIELDSDATASPYEAM |
| 21 | CADREPLACESPECIALCHARACTERS |
| 22 | CADSCREENPERMISSION |
| 23 | CADSCREEN |
| 24 | CADSCREENNOUPDATEURL |
| 25 | CADSINGLEBOILERTEXTS |
| 26 | CADSINGLEBOILERTEXTS1 |
| 27 | CADSINGLEBOILERTEXTSONLANFIELD |
| 28 | CADSINGLEBOILERTEXTSONLANGGRID |
| 29 | CADBOILERTEXTFORGRIDDESC |
| 30 | CADSINGLECOLOR |
| 31 | CADSINGLECOLORCTB |
| 32 | CADSINGLELAYSPACECFG |
| 33 | CADCHECKUPDATEOLDTAB |
| 34 | CADSINGLETBSECURITY |

| | |
|----|------------------------------|
| 35 | CADSINGLESECCGRID |
| 36 | CADINSOUU003 |
| 37 | CADSINGLECUSTOMGRID |
| 38 | CADSINGLEDATASPY |
| 39 | CADSINGLEDDFIELDNOTEXIST |
| 40 | CADFIELDFREETEXTNOTEXIST |
| 41 | CADSINGLEDDFIELD |
| 42 | CADSINGLEFUNCTIONTAB |
| 43 | CADSINGLEFUNCTIONUSERTABS |
| 44 | CADSINGLEGRIDFIELD |
| 45 | CADSINGLEGRIDFIELDNEW |
| 46 | CADSINGLEGRIDQUERY |
| 47 | CADSINGLEMENUITEM |
| 48 | CADSINGLEMENUITEMHIDE |
| 49 | CADSINGLEMENULANG |
| 50 | CADSINGLEOCADFUNCTION |
| 51 | CADSINGLEOCADBIMFUNCTION |
| 52 | CADSINGLEPARAMETER |
| 53 | CADSINGLEPARAMETERUPBREAND |
| 54 | CADSINGLEPERMISSION |
| 55 | CADSINGLEUDSPERMISSION |
| 56 | CADSINGLEQUERYFIELD |
| 57 | CADSINGLEQUERYFIELDFIELDPLUS |
| 58 | CADSINGLESCREEN |
| 59 | CADSINGLESCREENGRID |
| 60 | CADSINGLESCREENPERMISSION |
| 61 | CADSINGLETABPERMISSION |
| 62 | CADSINGLETEXT |
| 63 | CADSINGLEUOMS |
| 64 | CADWRITEOCADR5GRID |
| 65 | CADALLLANGUAGES |
| 66 | CADALIGNMENTTEXT |
| 67 | CADALLLANGBOILERTEXT |
| 68 | CADBOILERTEXTFORFIELD |
| 69 | CADBOILERTEXTFORFIELDALLEXT |
| 70 | CADBOILERTEXTFORGRID |
| 71 | CADBOILERTEXTFORGRIDALLEXT |
| 72 | CADBOILERTEXTFORGRIDALL |
| 73 | CADCUSTOMFIELDVALUE |
| 74 | CADHYPERLINK |
| 75 | CADR5CONTENTTABLES |
| 76 | CADSINGLEDATASPYEAM |
| 77 | CADRECOVEROCADUTTAB |
| 78 | CADSINGLEMENULANGALLLANGS |
| 79 | CADR5EXTMENUXB |
| 80 | CADR5FUNCTION |
| 81 | CADR5FUNCTIONACTIVATION |
| 82 | CADR5FUNCTIONTABS |
| 83 | CADCODECGRID |
| 84 | CADCODECGRIDOUC |
| 85 | CADCODECGRIDALLCASES |
| 86 | CADSINGLEUSERDEFINEDSCREEN |
| 87 | CADSINGLEWSPROMPTS |
| 88 | CADSINGLESCREENUDS |
| 89 | CADBOILERTEXTFORUDS |
| 90 | CADSINGLEBOILERTEXTSALLLANG |
| 91 | CADBOILERTEXTFORUDSALLEXT |

| | |
|------------|--------------------------------|
| 92 | CADBOILERTEXTFORUDSALLEXTBLOCK |
| 93 | CADBOILERTEXTUCADU03ALLEXTBLK |
| 94 | CADBOILERTEXTUCADU04ALLEXTBLK |
| 95 | CADBOILERTEXTUCADU05ALLEXTBLK |
| 96 | CADSINGLEPAGELAYOUT |
| 97 | CADSINGLEUDSFIELD |
| 98 | CADSINGLEWSPROMPTFIELDS |
| 99 | CADSINGLEFIELDGRR1 |
| 100 | CADSINGLEFIELDGRR1ALIAS |
| 101 | CADUDSUCADU01FIELDSUPDATE |
| 102 | CADLABELSEPCUPDATE |
| 103 | CADUDSUCADU01LABELSUPDATE |
| 104 | CADUDSUCADU01FIELDS |
| 105 | CADUDSUCADU03FIELDS |
| 106 | CADUDSUCADU04FIELDSUPDATE |
| 107 | CADUDSUCADU04FIELDS |
| 108 | CADUDSUCADU05FIELDSUPDATE |
| 109 | CADUDSUCADU05FIELDS |
| 110 | CADR5GRIDS |
| 111 | CADR5UDFSCREENS |
| 112 | CADR5HYPERLINKS |
| 113 | CADR5CDKEYDWG |
| 114 | CADR5INSTALL |
| 115 | CADR5PROPERTIES |
| 116 | CADR5QUERIES |
| 117 | CADR5UOMS |
| 118 | CADEMNPARENTCHECK |
| 119 | CADNOMENUITEM |
| 120 | CADSRULESET01PTWGRID |
| 121 | CADSINGLEOCADRTRUTKNS |
| 122 | CADOCEMNCODE |
| 123 | CADR5EXTMENUDELMENUITEM |
| 124 | CADR5EXTMENUXBDEL |
| 125 | CADSINGLEOCADR5EXTMENUS |
| 125 | CADEMNCODEFROMSEQUENCE |
| 127 | CADR5EXTMENUXBSEQUENCE |
| 128 | CADCODEUDSOUU |
| | |

Procedure

| | |
|---|-------------------|
| 1 | OPENCADACTIVATION |
|---|-------------------|

Trigger

| | |
|---|--------------------------------|
| 1 | PREUPD2_U5OCAD_PDF |
| 2 | PREUPD2_U5OCAD_SVG_SEC_CGRID |
| 3 | PREUPD2_U5OCAD_SVG_TB_SECURITY |
| 4 | PREUPD2_U5OCAD_PARAMS |