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## 1. Introduction

### 1.1 Identification and Scope

This document is the CGS 8.2.0 SW Release Notes. The release is identified by document CGS SRO (MPCV-RIBRE-SRO-0204).

<u>CI Name:</u>	CGS SW
<u>CI Number:</u>	1130992
<u>CI Variant:</u>	8.2.0

### 1.2 Purpose

The purpose of this software release is a delivery of a tested version of CGS for official use.

### 1.3 Document Layout

This document has the following layout:

**Chapter 1** provides the document identification and identifies under which CI this document is prepared. It also identifies the next higher level component CI. Chapter 1 also provides an overview of the purpose of the document and the overall document structure.

**Chapter 2** provides the list of documents which are applicable or are referenced.

**Chapter 3** provides an overall description of the release. Thus in this chapter all SW products being integrated are listed including the temporary fixes necessary to run the SW. This chapter also provides the identification of CCU versions being used for the SW product integration (if any).

**Chapter 4** provides an overview of the release status. This includes a statement on the current test status and the identification of SPRs being fixed with this release.

**Chapter 5** provides the installation instruction for the CGS SW.

**Chapter 6** provides a list of abbreviations being used

## 2. Applicable and Reference Documents

### CGS Documents:

	<u>name</u>	<u>issue</u>	<u>date</u>
<b>Technical Note</b>			
MPCV-RIBRE-RN-0003	CGS SW Release Notes (Linux)	3	13.02.2015
CGS-RIBRE-TN-0002	The CGS Authorization Concept	2/B	04.09.2006
<b>SW Release Order</b>			
MPCV-RIBRE-SRO-0015	CGS Software Release Order (Linux)	1	13.02.2015
<b>User Manuals</b>			
CGS-RIBRE-SUM-0001	CGS User Manual	19/-	13.02.2015
CGS-RIBRE-SUM-0002	CGS Installation Manual (Linux)	11/-	31.12.2013
CGS-RIBRE-SUM-0003	MDA Reference Manual	1/G	05.04.2012
CGS-RIBRE-SUM-0004	MDA Administration Manual - see COL	1/-	
CGS-RIBRE-SUM-0005	DADIMA Reference Manual	1	09.11.2001
CGS-RIBRE-SUM-0006	DADIMA Administration Manual	1	09.11.2001
CGS-RIBRE-MA-0001	UCL Debugger User Manual	1	01.09.2004
CGS-RIBRE-MA-0003	call - A tool to add a graphical user interface to command line based programs	1/-	01.03.2006
CGS-RIBRE-MA-0004	"mdb - MDB Access Tool"	1/A	01.02.2009
CGS-RIBRE-MA-0005	"generate - Text Generation Tool"	1/-	01.03.2006
CGS-RIBRE-MA-0006	CDU Merge Users Manual	1	14.03.2006
CGS-RIBRE-MA-0007	Start Center - A generic user interface for multi-process systems	1/C	04.09.2007
CGS-RIBRE-MA-0008	An XML Based Configuration Concept	1/-	01.10.2006
CGS-RIBRE-MA-0010	Logger - A client/server based logging system	4/-	25.03.2014
COL-RIBRE-MA-0018-00	MDA Administration Manual	4/B	31.03.2000
COL-RIBRE-MA-0030-00	MDA Introduction Manual	3/B	04.04.1997
COL-RIBRE-MA-0037-00	DADIMA Introduction Manual	3	04.04.1997
COL-RIBRE-MA-0046	SID Range Tool Users and Operations Manual	1	15.09.1997
<b>Reference Manuals</b>			
CGS-RIBRE-STD-0001	User Control Language (UCL) Reference Manual	5/-	29.01.2010
CGS-RIBRE-STD-0002	High Level Command Language (HLCL) Reference Manual	5/-	29.01.2010
CGS-RIBRE-STD-0003	Virtual Stack Machine and I-Code Reference Manual	5/-	29.01.2010
<b>Requirements Specifications</b>			
CGS-RIBRE-SPE-0001	Columbus Ground System (CGS) Requirement Specification	2/D	23.03.2004
CGS-RIBRE-SPE-0002	CGS Test Case Specification and Test Procedure	7/-	30.06.2008
<b>Design Documentation</b>			
COL-RIBRE-ADD-0006	Columbus Ground System (CGS) Software Architectural Design Document	4/B	30.10.1997
<b>Interface Definitions</b>			
CGS-RIBRE-ICD-0001	System to CGS ICD	1/-	31.01.2002
CGS-RIBRE-ICD-0002	MDB Standard Entities and Application Program Interface	1/-	
ESO-IT-LI-0070	List of IRNs from CGS-RIBRE-ICD-0001	1	01.07.2008
ESO-IT-LI-0071	List of IRNs from CGS-RIBRE-ICD-0002	1	01.07.2008

### 3. Release Overview

#### 3.1 CCU Version Identification

This CGS SW Release provides no mission database content.

#### 3.2 Integrated Products

In following table integrated components are identified, delivered with this release of the CGS SW.

- USS 3.3.0 (see 4.3)

#### 3.3 Release Media & their Contents

The System is delivered as ISO image as described in SW Release Order (MPCV-RIBRE-SRO-0002).

This delivery contains the CGS system as well as online documentation.

#### 3.4 Identification of the Generation and Test Environment

The CGS SW generation environment is based on commercial baseline described in chapter 4.3 Commercial Baseline.

The CGS test environment is based on commercial baseline described in chapter 4.3 Commercial Baseline.

## 4. SW Release Status

### 4.1 Release Status

The release status is: **VALIDATED**

The SPRs fixed in this release have been regression tested as documented in the CGS SPRdb. It has been assessed that the code changes have no impact to the qualification status of other SW modules of CGS as released in former versions.

### 4.2 Test Status

This CGS SW was tested using the baseline as defined in Chapter 4.3. The test status is **VALIDATED**.

Only the SPRs fixed in this release have been regression tested as documented in the CGS SPRdb.

### 4.3 Commercial Baseline

- ✓ Suse Linux Enterprise Server 11 / ServicePack3 / 64 bit
- ✓ Oracle 12.1.0.1.0 standard one edition
- ✓ CGS API build with gnat 7.2.2 (\*)
- ✓ CIS CORBA Server built with PolyORB 2.9.29.2 (CORBA 3.0, GIOP 1.2)
- ✓ USS version 3.3.0 (build-20150205-1222) @ 114258 (\*)
- ✓ Java 1.7 (\*)

This CGS SW release shall be executed on Intel PC with SUSE Linux Enterprise Server 11 SP3 (64 bit) based environments.

(\*) marked components are available on CGS delivery

### 4.4 Recommended Hardware Baseline

- ✓ It is recommended to use NVIDIA graphic card and the proper NVIDIA driver for usage of USS.

### 4.5 Recommended KDE settings

- ✓ It is recommended to set for each user the focus stealing prevention to "None" (KDE/Personal Settings/Desktop/Window Behaviour/Advanced/Focus stealing prevention level). This means: Prevention is turned off and new windows always become activated. (SPR-102860)

### 4.6 Compatibility Statement

The compatibility status of current CGS 8.2.0 and selected CGS components to previous CGS versions are shown below (✓ - compatible)

CGS Version \ Component	7.3.6	8.0.0	8.1.0	8.1.1
CGS software		✓	✓	✓
MDB	✓	✓	✓	✓
SAS (CGS API)				✓
CSS model		✓	✓	✓
I-Code	✓	✓	✓	✓
UCL System Libraries				✓
Command History	✓	✓	✓	✓

remark:  
 new commercial baseline  
 upward compatible  
 recompile requested - new  
 CGS API in 8.1.0  
 rebuild requested in 8.0.0  
  
 changed system libraries in 8.1.1

## 4.7 New or Updated Components

All software components are updated.

## 4.8 New features in CGS 8.2.0

What's new in CGS 8.2.0 (in different to CGS 8.1.1)?

There are two major changes or features in this CGS version and many bug fixes and improvements. The major changes are the introduction of monitoring plans and the abstract enditem concept for measurements.

### 4.8.1 Monitoring Plan ([SPR-102980](#))

In this CGS version the definition of monitoring plans in the file system and the usage during test execution is possible. The definition of monitoring plans in the mission data base is planned for the next version.

The monitoring plan allows defining a list of enditems together with their monitoring definitions.

The monitoring plan can be

- load from file system into execution system (TES)
- activated (after previous load)
- unload from execution system
- generated from current monitoring definition

The procedures are implemented and described in MONITORING\_PLANS system library (\$CGS\_HOME/gsaf/cgsi/lib/ucl/monitoring\_plans\_.ucl).

#### 4.8.1.1 Load Monitoring Plan

Load means reading the monitoring plan from file system to the execution system and a consistency check.

The consistency check covers:

- existence of item
- existence of actions
- consistency of limits

After loading the monitoring plan is not active. The user can load more than one monitoring plan.

#### 4.8.1.2 Activate Monitoring Plan

Activate means overwriting the monitoring definitions for the in the monitoring plan defined items. This means, that the settings given by plan are set as monitoring definition for various items. This routine do not enable/disable monitoring on the defined items, but if the monitoring is enabled the status information are new calculated for the affected items. For the activation no stopping of the current acquisition is necessary.

#### 4.8.1.3 Unload Monitoring Plan

Unload means removing of the monitoring plan from execution system, but not the removal of the current monitoring definitions set via monitoring plan.

#### 4.8.1.4 Generate Monitoring Plan

Generate means creation or updating of an existent monitoring plan. The current monitoring definitions in the execution system can be written to a monitoring plan file.



#### 4.8.1.5 Monitoring Plan Structure

The monitoring plan file is a simple comma separated ASCII file with following fields:

- Item (pathname or nickname)
- Nominal Min
- Nominal Min Message
- Nominal Min Action
- Nominal Max
- Nominal Max Message
- Nominal Max Action
- Nominal Delta
- Nominal Delta Message
- Nominal Delta Action
- Danger Min
- Danger Min Message
- Danger Min Action
- Danger Max
- Danger Max Message
- Danger Max Action
- Danger Delta
- Danger Delta Message
- Danger Delta Action
- Description

for scalar items (integer, unsigned integer, float, double float). All fields after Danger Delta Action are ignored, the description is for comfort only.

For discrete items (string, state code) following fields are relevant:

- Item (pathname or nickname)
- Expected value
- Message
- Action

the remaining fields will be ignored.

#### 4.8.2 Danger Limit Without Nominal Limit ([SPR-102147](#))

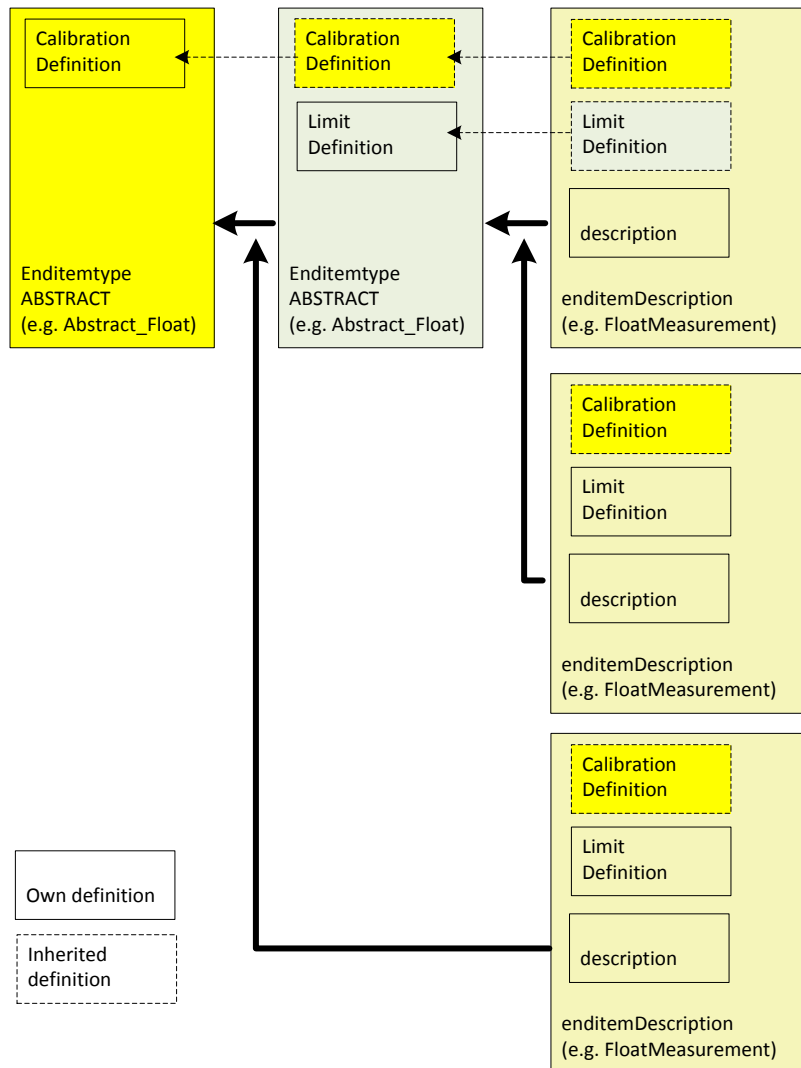
Now it is possible to define danger limits without defining nominal limits.

#### 4.8.3 Abstract Enditems ([SPR-102926](#))

The concept of Abstract Enditems for measurements is introduced in this version. This concept allows measurements to inherit definitions from abstract items.

A measurement can reference exactly one abstract item and will inherit all definitions of this abstract item. The abstract item can reference again exactly one abstract item and will inherit definitions from this referenced abstract item (see figure below). Cycles are forbidden.

The definitions at the highest level (in general at measurement level) overwrite the lower definitions.



- For the definitions
- Nickname
  - Pathname
  - SID
  - end item description
  - change management info
- inheritance is not possible.

An abstract enditem can be referenced from more than one enditem.

This concept allows defining, for instance, a calibration definition once and using this definition for many measurements.

#### 4.8.4 DDED Table Implementation And Abstract Support (SPR-103213)

In scope of solving different DDED problems the DDED has been changed from list view to table view for attributes. This allows editing attributes directly in the table fields.

Path: \EURECA\EGSE\TEST22\_BASIC\_TM1\_GENERAL\CALIB\_AND\_EVLM\MEAS\ANALOGM\_FLT\_PP\_FLT  
 Creation Date: 12-DEC-2003 10:42:56

**Analog Calibration**  
 Calib Curve Type: enumeration  
 Curve Type: POINT\_PAIRS

**Analog Point pairs**

Raw Value DOUBLE_FLOAT	Engineering Value DOUBLE_FLOAT
0.00000000000000E+00	0.00000000000000E+00
1.00000000000000E+00	2.00000000000000E+00
2.00000000000000E+00	4.00000000000000E+00
3.00000000000000E+00	8.00000000000000E+00
4.00000000000000E+00	1.60000000000000E+01
5.00000000000000E+00	3.20000000000000E+01
6.00000000000000E+00	6.40000000000000E+01
7.00000000000000E+00	1.28000000000000E+02

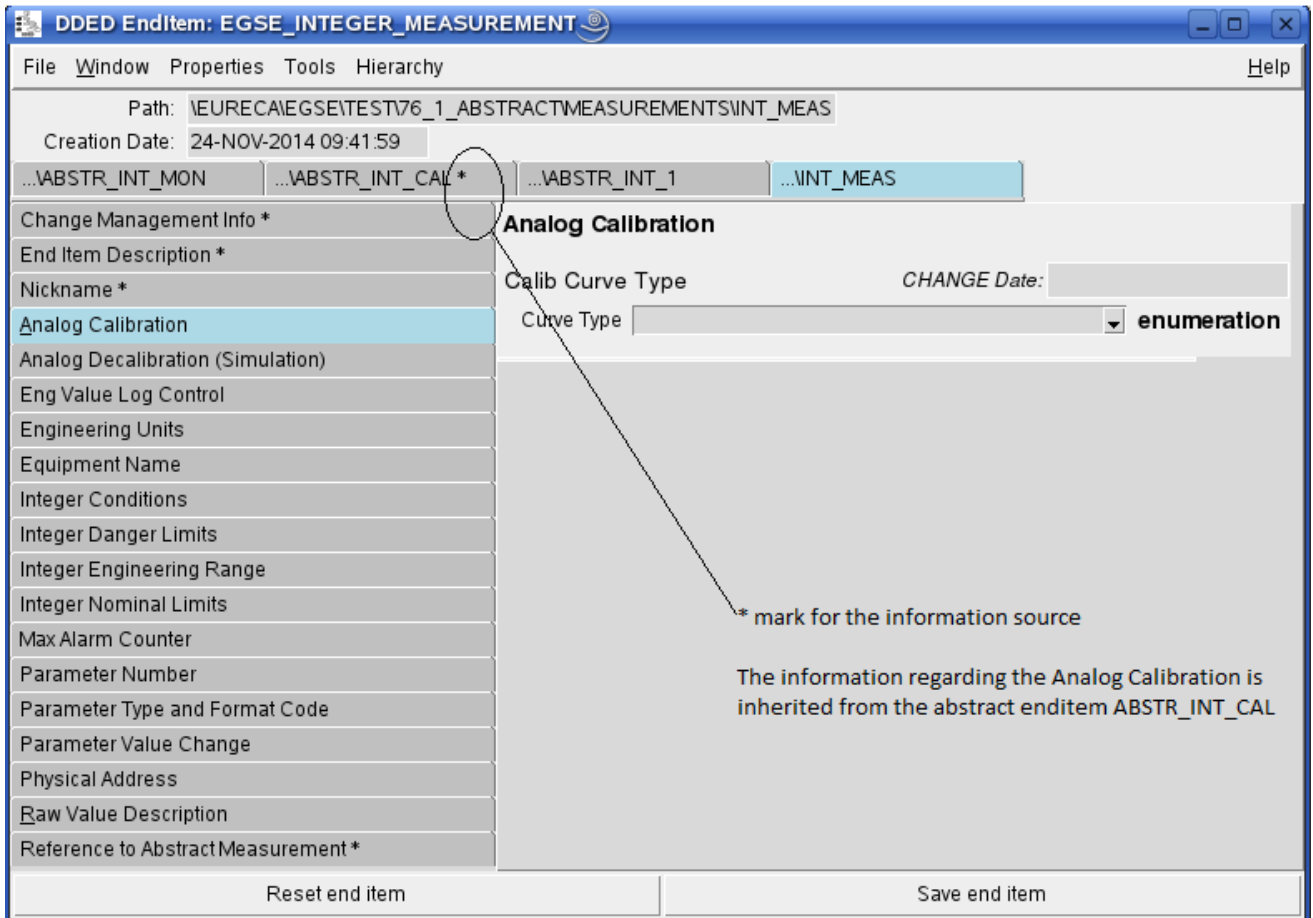
Additionally the DDED supports the visualization of inheritance for measurement and abstract enditems. The Hierarchy-Menu shows the hierarchy of references as shown in figure below:

The measurement INT\_MEAS refer to the abstract ABSTR\_INT\_1, ABSTR\_INT\_1 refer to abstract ABSTR\_INT\_CAL and ABSTR\_INT\_CAL refer to abstract enditem ABSTR\_INT\_MON.

Path: \EURECA\EGSE\TEST\76\_2\_ABSTRACT\ABSTR\_INT\_MON  
 Creation Date: 24-NOV-2014 09:00

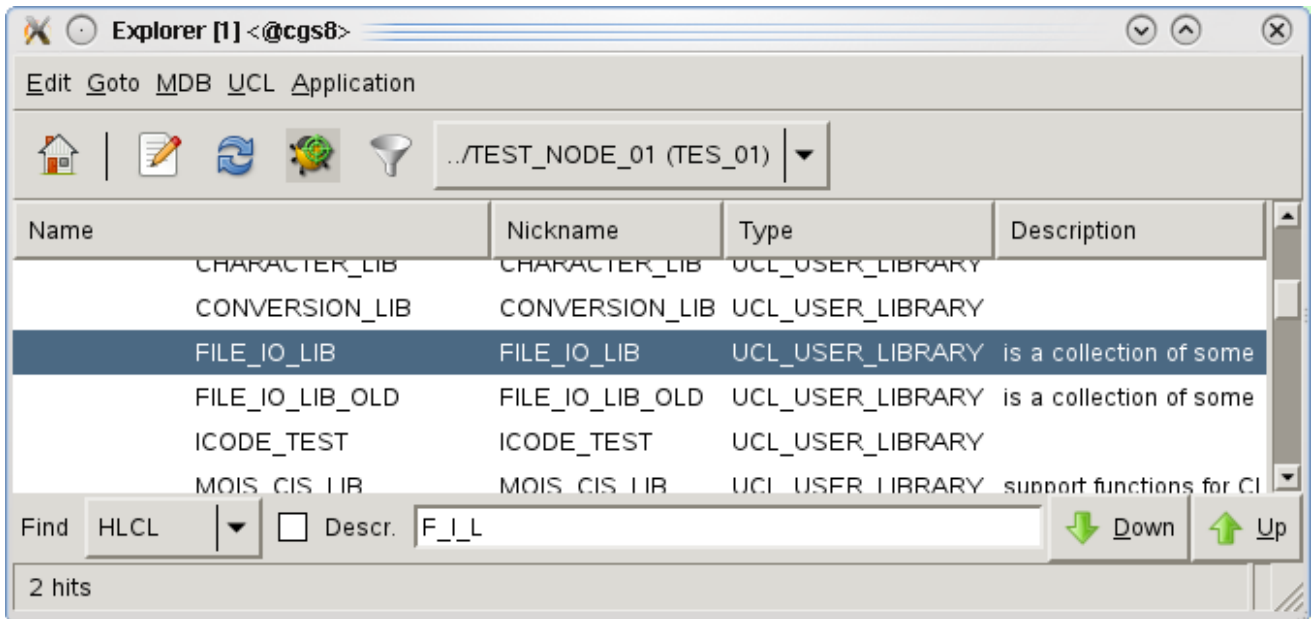
Hierarchy:  
 \EURECA\EGSE\TEST\76\_2\_ABSTRACT\ABSTR\_INT\_MON  
 \EURECA\EGSE\TEST\76\_2\_ABSTRACT\ABSTR\_INT\_CAL  
 \EURECA\EGSE\TEST\76\_2\_ABSTRACT\ABSTR\_INT\_1  
 \EURECA\EGSE\TEST\76\_1\_ABSTRACT\MEASUREMENTS\INT\_MEAS

The source of information is indicated in the DDED by a star. For all information regarding Change Management Info, End Item Description and Nickname the star is always on measurement level, because inheritance is not possible. In the example below the measurement contains directly information regarding Change Management Info, End Item Description and Nickname and Reference to Abstract Measurement. All other information are inherited. The Analog Calibration is really defined in the abstract enditem ABSTR\_INT\_CAL



#### 4.8.5 Integrate UCL Browser in Explorer ([SPR-103313](#))

In this version the UCL Browser is not existent any longer. All the functionality is integrated into the Explorer window. A special view allows switching the explorer window in such way, that only UCL items are visible (as in the UCL browser window before).

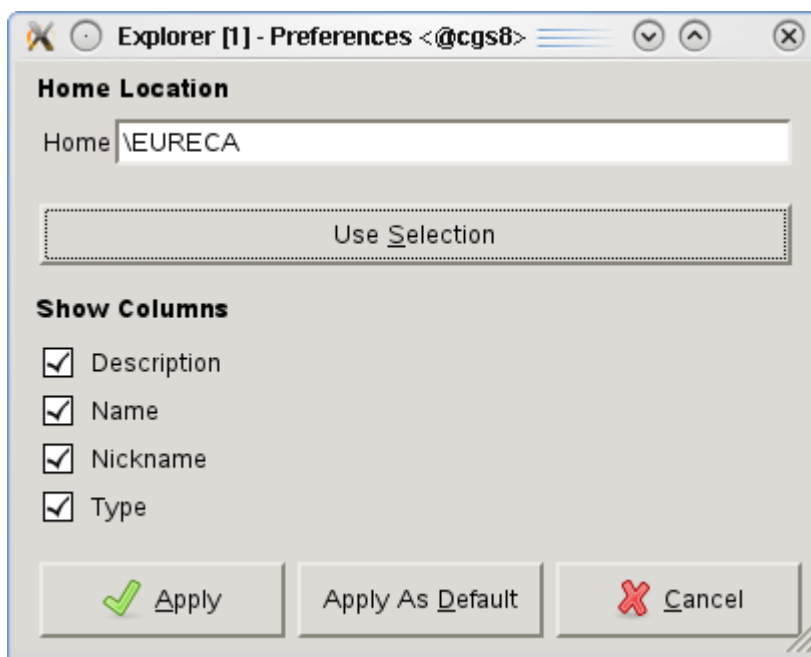


#### 4.8.6 Status Display Improvements ([SPR-103259](#), [SPR-103286](#), [SPR-103287](#), [SPR-103297](#))

Some HCI status displays are improved with respect to displayed columns and column sizes. The affected windows are:

- AP Status Window
- Out Of Limit Display
- Monitoring Window
- Explorer Window

In the Explorer Window it is possible now to display the enditem description - see figure above. As an example the preferences of the explorer window are shown in figure below:



For more details see in CGS user manual section 7.3.2.3.2, ff.

#### 4.8.7 Search Improvements (SPR-103307)

In HCI Explorer window it is possible now additional to search like in HLCL shell. This works like HLCL abbreviations (see CGS-RIBRE-STD-0002 High Level Command Language (HLCL) Reference Manual, section 4.17 Abbreviations).

Example: when searching for T\_P\_OFF enditem with name TSZC\_POWER\_OFF will match.

#### 4.8.8 Nickname Prefix For MDB Instance (SPR-103273)

CGS is able to support distributed mission data base development by a new feature.

The project can specify for each MDB instance a nickname prefix, which will then inserted in empty nickname input fields in I\_MDB and DDED for items belongs to the own instance.

The default prefix is an empty string (behavior as in older CGS versions).

To manage nickname prefix in MDB instances CGS delivers a shell script:

```
> $CGS_HOME/gsaf/mda/config/mdb/install/admin_scripts/nickname_prefix.sh -h
```

```
Administration Commands  
nickname_prefix.sh
```

```
NAME  
    nickname_prefix.sh
```

```
SYNOPSIS  
    Usage: nickname_prefix.sh -h | -l | -d | -i <mdb_instance> <prefix>
```

```
DESCRIPTION  
    This script lists, and inserts prefixes for nicknames.
```

```
PARAMETERS  
    -h                help  
    -l                lists the Nickname Prefixes from MDB  
    -d                deletes all Nickname Prefixes from MDB  
    -i <mdb_instance> <prefix> inserts a Nickname Prefix into the MDB
```

## 4.9 SW Problem Status

### 4.9.1 SPR Status

For this CGS release 81 SPR's are solved.

ID▲	TITLE	EXTERNAL REFERENCE
<a href="#">SPR-102147</a>	Danger Limit setting too inflexible	
<a href="#">SPR-102897</a>	USS Executor leaves HLCL interpreter running after error causing lock	<a href="#">USS-4063 (PFORGE)</a>
<a href="#">SPR-102920</a>	HCI_Message.Reaper_Logger errors: Tasks became abnormal	
<a href="#">SPR-102926</a>	ABSTRACT end item type for measurement descriptions	
<a href="#">SPR-102929</a>	USS: Comment field does not show Description as defined in MDA	<a href="#">USS-4067 (PFORGE)</a>
<a href="#">SPR-102930</a>	Message Window should support filtering for "hidden" messages	
<a href="#">SPR-102971</a>	I_MDB Copy End Item: Nickname is also copied	
<a href="#">SPR-102977</a>	MPCV-ESM: Enlarge the number of point pairs for calibration to 1024	
<a href="#">SPR-102980</a>	MPCV-ESM: allow definition of monitoring plans	
<a href="#">SPR-102988</a>	MPCV-ESM: Enlarge the number of point pairs for calibration to 1024 - TES change	
<a href="#">SPR-103044</a>	StartCenter should show command parameters in quotes, if necessary	
<a href="#">SPR-103047</a>	MPCV-ESM: Requirements Info - change MDB tool	
<a href="#">SPR-103079</a>	Discrete calibration gets puzzled when scrolling down with mouse wheel	
<a href="#">SPR-103102</a>	TES: Error message during shutdown	
<a href="#">SPR-103106</a>	AP status window - too much space between two rows	
<a href="#">SPR-103116</a>	Callback Guard task becomes abnormal	
<a href="#">SPR-103117</a>	Test scripts stall	
<a href="#">SPR-103123</a>	Start_Help_Facility does not work if filename contains blanks or other special characters	
<a href="#">SPR-103135</a>	Unsorted output of "Flexible MDB Reports"	
<a href="#">SPR-103143</a>	"Enditem Report" does not work in CGS 8	
<a href="#">SPR-103145</a>	I_MDB Crash	
<a href="#">SPR-103157</a>	Remove CGS conf parameter Nsw.Ignore_Alive_Msg_Check	<a href="#">COL-RIBRE-SPR-25907</a>
<a href="#">SPR-103168</a>	I_MDB: Strange MDB Instance Name shown	
<a href="#">SPR-103178</a>	One corrupted synoptic display causes whole USS tool chain to fail	<a href="#">USS-4086 (PFORGE)</a>
<a href="#">SPR-103179</a>	ExcelMDB does not support End Item Description	
<a href="#">SPR-103180</a>	CGS configurator does not check for valid database name	
<a href="#">SPR-103185</a>	CGS Installer should not make any assumption for MDB instance name	
<a href="#">SPR-103203</a>	MPCV-ESM: allow definition of monitoring plans - extension	
<a href="#">SPR-103212</a>	install_mdb should get an useful output in case of errors	<a href="#">MPCV-EGF-RIBRE-SPR-2</a>
<a href="#">SPR-103213</a>	DDED automatically saves end item changes on Quit	
<a href="#">SPR-103219</a>	TSCV reports exception instead of an error message	
<a href="#">SPR-103220</a>	TES: shutdown of TES with running AP could be erroneous	
<a href="#">SPR-103222</a>	ABSTRACT end item types - prerequisites generate SCOE	
<a href="#">SPR-103224</a>	ABSTRACT end item types - prerequisites P_MDB	
<a href="#">SPR-103227</a>	USS editor des allows only to edit the first parameter of a command	<a href="#">MPCV-EGF-RIBRE-SPR-25, USS-4092 (PFORGE)</a>

<a href="#">SPR-103228</a>	Generate Command Packets generates an entry for aggregate Parameter Engineering Unit	<a href="#">MPCV-EGF-RIBRE-SPR-26</a>
<a href="#">SPR-103229</a>	USS executor fails to send a structural command	<a href="#">MPCV-EGF-RIBRE-SPR-27</a>
<a href="#">SPR-103230</a>	some measurement items are not updated after CIS restart	<a href="#">USS-3986 (PFORGE)</a>
<a href="#">SPR-103234</a>	DDED stops, if a sixth limit set is tried to insert	
<a href="#">SPR-103235</a>	DEDD does not display all values of "Parameter Float Engineering Descr."	
<a href="#">SPR-103236</a>	mdb tool destroys database entries in frozen CDU	<a href="#">MPCV-EGF-RIBRE-SPR-32</a>
<a href="#">SPR-103243</a>	New attribute to be added to General Bitstream Layout	<a href="#">MPCV-EGF-RIBRE-SPR-37</a>
<a href="#">SPR-103244</a>	Mandatory aggregate must be optional	<a href="#">MPCV-EGF-RIBRE-SPR-39</a>
<a href="#">SPR-103248</a>	Incomplete DADI Data causes import of eqf_sw.exp to fail	<a href="#">MPCV-EGF-RIBRE-SPR-44</a>
<a href="#">SPR-103249</a>	I_MDB emits annoying beeps	<a href="#">MPCV-EGF-RIBRE-SPR-47</a>
<a href="#">SPR-103253</a>	format tool cannot store updates in end item	<a href="#">MPCV-EGF-RIBRE-SPR-57</a>
<a href="#">SPR-103255</a>	CLS editor doesn't use new calculated system library signature for procedure calls	
<a href="#">SPR-103258</a>	Problem with generate_command_packet	<a href="#">MPCV-EGF-RIBRE-SPR-64</a>
<a href="#">SPR-103259</a>	Missing horizontal scroll bar in HCI's Monitoring Window and OOL Window	<a href="#">MPCV-EGF-RIBRE-SPR-65</a>
<a href="#">SPR-103260</a>	Problem with generate_command_packet (consistency checks for embedded commands missing)	<a href="#">MPCV-EGF-RIBRE-SPR-64</a>
<a href="#">SPR-103261</a>	Wrong display name in aggregate Parameter Analog Decalibration of end item type EMBEDDED_COMMAND	<a href="#">MPCV-EGF-RIBRE-SPR-66</a>
<a href="#">SPR-103262</a>	Missing aggregates to support the Simulator (as part of ESM-QF)	<a href="#">MPCV-EGF-RIBRE-SPR-67</a>
<a href="#">SPR-103263</a>	ABSTRACT end item types - adapt SCOE-XML	
<a href="#">SPR-103267</a>	Equipment name missing for some end item types	<a href="#">MPCV-EGF-RIBRE-SPR-68</a>
<a href="#">SPR-103273</a>	Add support to restrict nickname name space for a specific database instance	<a href="#">MPCV-EGF-RIBRE-SPR-72</a>
<a href="#">SPR-103276</a>	Poor performance of SCOE-XML	
<a href="#">SPR-103278</a>	CGS PUS support	<a href="#">MPCV-EGF-RIBRE-SPR-73</a>
<a href="#">SPR-103280</a>	DDED does not suppress unselected alternatives for Data Field Header	<a href="#">MPCV-EGF-RIBRE-SPR-81</a>
<a href="#">SPR-103282</a>	generate_command_packet: Tries to handle TCs other than COMMAND_PACKETS as well, and fails	<a href="#">MPCV-EGF-RIBRE-SPR-82</a>
<a href="#">SPR-103284</a>	DDED doesn't delete variant aggregate record when deleting of discriminant aggregate record	
<a href="#">SPR-103286</a>	Add column for enditem description to Explorer window	
<a href="#">SPR-103287</a>	Make visibility of column of Explorer window configurable.	
<a href="#">SPR-103288</a>	USS: Parameter Missing for Command Button	<a href="#">MPCV-EGF-RIBRE-SPR-83, USS-4097 (PFORGE)</a>
<a href="#">SPR-103292</a>	Long names for statecodes missing	<a href="#">MPCV-EGF-RIBRE-SPR-87</a>
<a href="#">SPR-103293</a>	Upgrade from CGS 8.1.1 to CGS 8.2.0 fails in postinstall mda	<a href="#">MPCV-EGF-RIBRE-SPR-90</a>
<a href="#">SPR-103294</a>	Add input field for column width to preferences dialog of OOL and monitoring window	
<a href="#">SPR-103295</a>	SCOE XML no longer includes parameter lists	<a href="#">MPCV-EGF-RIBRE-SPR-91</a>
<a href="#">SPR-103296</a>	CGS Documentation no longer visible (error in Start_Help_Facility?)	<a href="#">MPCV-EGF-RIBRE-SPR-92</a>
<a href="#">SPR-103297</a>	Make visibility of AP Status display columns configurable.	
<a href="#">SPR-103298</a>	BDE Error during Import	<a href="#">MPCV-EGF-RIBRE-SPR-94</a>



<a href="#">SPR-103299</a>	DDED: No easy way to add entry at the end of lists	<a href="#">MPCV-EGF-RIBRE-SPR-99</a>
<a href="#">SPR-103301</a>	DDED reports Oracle/MDA Error	<a href="#">MPCV-EGF-RIBRE-SPR-101</a>
<a href="#">SPR-103302</a>	CLS Batch Compiler fails if two libraries reference each other	<a href="#">MPCV-EGF-RIBRE-SPR-102</a>
<a href="#">SPR-103303</a>	DDED resize window: contents remains static in size	<a href="#">MPCV-EGF-RIBRE-SPR-104</a>
<a href="#">SPR-103304</a>	CLS Editor only generates empty listing files	<a href="#">MPCV-EGF-RIBRE-SPR-105</a>
<a href="#">SPR-103305</a>	generate command packets didn't check up-to-date correctly	
<a href="#">SPR-103307</a>	Provide find function working like HLCL abbreviations in HCI Explorer	
<a href="#">SPR-103308</a>	Error messages from TES and CIS when test session is shut down	<a href="#">MPCV-EGF-RIBRE-SPR-109</a>
<a href="#">SPR-103311</a>	SCOE-XML creates incorrect calibration coefficient values for different CGS versions	
<a href="#">SPR-103313</a>	Integrate UCL Browser in Explorer	
<a href="#">SPR-103319</a>	Statecode not handled correctly	<a href="#">MPCV-EGF-RIBRE-SPR-113</a>

## 4.10 Known Problems

### 4.10.1 Further Open Problems

### 4.10.2 Known Restrictions

## 5. Installation Procedures

This software shall be used on Intel PC with SUSE Linux Enterpriser Server 11 (SLES11).

### 5.1 Complete Installation

For a complete installation follow the instructions of CGS installation manual CGS-RIBRE-SUM-0002.

Remark: The actual CGS installation manual is on DVD below `/<mountpoint>/doc/manual`.

### 5.2 Upgrade Installation

For an upgrade installation follow the next instructions.

The following syntax

```
cgsadmin> ls -al
```

means the shell command `ls -al` executed as user `cgsadmin`,

```
oracle> cd
```

means the shell command `cd` executed as user `oracle`.

#### 5.2.1 Needed passwords

1. `<cgsadmin>` (UNIX user)
2. `root` (UNIX user)

#### 5.2.2 Installation steps (based on CGS 8.1.1)

1.  login as user `<cgsadmin>` on DB server host
2.  insert CGS DVD CGS\_8.2.0
3. `mount DVD`
4. install all products from DVD  
`cgsadmin> /<mountpoint>/installer.sh -auto start`  
  
Select Exit (after installation)
5. `umount DVD`
6. replace changed system libraries  
add in MDB the UCL system libraries
  - `monitoring_plans_.ucl`  
from file system `$CGS_HOME/gsaf/cgs/lib/ucl`
7. regenerate SCOE data

Due to new end item types in MDB a new generation of SCOE data is mandatory.



8. reboot server and if the server is ready, reboot all clients

## 6. Acronyms

<b>AD</b>	Applicable Document
<b>ADD</b>	Architectural Design Document
<b>AP</b>	Automated Procedure
<b>ASCII</b>	Americal Standard Code for Information Interchange
<b>ATP</b>	Authorization to Proceed
<b>ATV</b>	Autonomous Transfer Vehicle
<b>CCB</b>	Configuration Control Board
<b>CCU</b>	Configuration Control Unit
<b>CCSDS</b>	Consultative Committee for Space Data System
<b>CGS</b>	Core Ground System
<b>CDU</b>	Configuration Data Unit
<b>CLS</b>	CGS Language System
<b>COTS</b>	Commercial Off-The-Shelve
<b>CPL</b>	Crew Procedure Language
<b>CPU</b>	Central Processing Unit
<b>D&amp;D</b>	Design and Development
<b>DMS</b>	Data Management System
<b>DOF</b>	Degree of Freedom
<b>EGSE</b>	Electrical Ground Support Equipment
<b>EM</b>	Engineering Model
<b>EQM</b>	Engineering Qualification Model
<b>ESA</b>	European Space Agency
<b>ETM</b>	Electrical Test Model
<b>FDIR</b>	Fault Detection, Isolation and Recovery
<b>FM</b>	Flight Model
<b>GMT</b>	Greenwich Mean Time
<b>GNC</b>	Guidance Navigation Control
<b>GPS</b>	Global Positioning System
<b>HCI</b>	Human-Computer Interface
<b>HL</b>	High Level
<b>HLCL</b>	High Level Command Language
<b>HW</b>	Hardware
<b>ICD</b>	Interface Control Document
<b>IF</b>	InterFace
<b>ISS</b>	International Space Station
<b>LL</b>	Low Level
<b>MDB</b>	Mission Database
<b>MET</b>	Mission Elapsed Time
<b>MMS</b>	Matra Marconi Space
<b>N/A</b>	Not Applicable
<b>PDB</b>	Project Data Base
<b>PROM</b>	Programmable Read Only Memory
<b>RAM</b>	Random Access Memory
<b>RD</b>	Reference Document
<b>RFW</b>	Request for Waiver
<b>ROM</b>	Read Only Memory
<b>RV</b>	RendezVous
<b>S/C</b>	SpaceCraft
<b>SCCB</b>	Software Configuration Control Board
<b>SOC</b>	Statement of Compliance
<b>SPR</b>	Software Problem Report
<b>SRD</b>	Software Requirements Document
<b>SUM</b>	Software User Manual
<b>SW</b>	SoftWare
<b>SWRU</b>	Software Replaceable Unit
<b>TBC</b>	To Be Confirmed
<b>TBD</b>	To Be Defined
<b>TC</b>	TeleCommand
<b>TM</b>	TeleMetry
<b>TRR</b>	Test Readiness Review
<b>UCL</b>	User Control Language
<b>URD</b>	User Requirements Document
<b>UTC</b>	Universal Time Coordinated
<b>VCD</b>	Verification Control Document
<b>VTP</b>	Validation Test Plan

