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CGS 8.3.2 SW Release Notes

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This document issue provides the description of the CGS SW release 8.3.2

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Table of Contents

1. Introduction 4
1.1 Identification and Scope 4
1.2 Purpose 4
1.3 Document Layout 4

2. Applicable and Reference Documents 5

3. Release Overview 6
3.1 CCU Version Identification 6
3.2 Integrated Products 6
3.3 Release Media & their Contents 6
3.4 Identification of the Generation and Test Environment 6

4. SW Release Status 7
4.1 Release Status 7
4.2 Test Status 7
4.3 Commercial Baseline 7
4.4 Recommended Hardware Baseline 7
4.5 Recommended KDE settings 7
4.6 Compatibility Statement 7
4.7 New or Updated Components 8
4.8 New features in CGS 8.3.2 8
4.8.1 New CGS configuration parameters 8
4.9 SW Problem Status 8
4.9.1 SPR Status 8
4.10 Known Problems 10
4.10.1 Further Open Problems 10
4.10.2 Known Restrictions 10

5. Installation Procedures 11
5.1 Complete Installation 11
5.2 Upgrade Installation 11
5.2.1 Needed passwords 11
5.2.2 Installation steps (based on CGS 8.3.2) 11

6. Acronyms 12

1. Introduction

1.1 Identification and Scope

This document is the CGS 8.3.2 SW Release Notes. The release is identified by document MPCV SRO.

CI Name: CGS SW

CI Number: 1130992

CI Variant: 8.3.2

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:

	name	issue	date
Technical Note			
MPCV-RIBRE-RN-0003	CGS SW Release Notes (Linux)	6	19.09.2016
CGS-RIBRE-TN-0002	The CGS Authorization Concept	2/B	04.09.2006
User Manuals			
CGS-RIBRE-SUM-0001	CGS User Manual	22/-	15.09.2016
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
Reference Manuals			
CGS-RIBRE-STD-0001	User Control Language (UCL) Reference Manual	5/a	24.07.2015
CGS-RIBRE-STD-0002	High Level Command Language (HLCL) Reference Manual	5/a	29.05.2015
CGS-RIBRE-STD-0003	Virtual Stack Machine and I-Code Reference Manual	5/-	29.01.2010
Requirements Specifications			
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
Design Documentation			
COL-RIBRE-ADD-0006	Columbus Ground System (CGS) Software Architectural Design Document	4/B	30.10.1997

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 3.5.0 (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-0024).

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 7.3.1 (*)
- ✓ CIS CORBA Server built with PolyORB 2.9.29.2 (CORBA 3.0, GIOP 1.2)
- ✓ USS version 3.5.0 (build-20150629-0941) @ 117605 (*)
- ✓ 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 8.3.2 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	8.2.0	8.3.0	8.3.1
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 8.3.0

4.7 New or Updated Components

All software components are updated.

4.8 New features in CGS 8.3.2

What's new in CGS 8.3.2 (in different to CGS 8.3.0)?

There are some improvements with respect to MDB data structure. No major changes are implemented in this version.
Some of the changes are described in this section, for complete list see section 4.9.1.

4.8.1 New CGS configuration parameters

Following configuration parameters are new in CGS 8.3.2:

- System.ShowAllMessagesMulticast (SPR-103521)

  Defines if additionally(!) hidden messages are sent by multicast.
  Range: true/false

- CLS.Debug.Log_Item_Code_Location_Problems

  Log problems relating to the location of the item code.
  true: Appends a problem log on the CLS batch compilation log
  Range: true/false

- CIS.Global.KeepLogFiles

  Define the minimum number of days to keep CIS log files.

  Files are older than specified (by default 70 days) will be removed during CIS startup.

  Range: 0 .. 365
  Recommended value: 70

- CIS.CorbaInterface.ApplicationNameWithHostname

  Append host name at the end of application name
  When False, no host name (application)
  When True, host name (appplication@host)

  Default: False

4.9 SW Problem Status

4.9.1 SPR Status

For this CGS release 50 SPR's are solved.

ID▲	TITLE	EXTERNAL REFERENCE
SPR-103122	Flexible MDB Reports: The All CU Difference Report fails with ORA-12899	
SPR-103428	SCOE XML file activatables.xml classifies plain ground APs as Onboard Activatable	MPCV-EGF-RIBRE-SPR-243

SPR-103431	ExcelMDB - Write Workbook Data Into MDB: Spreadsheet name is missing in Message Window	
SPR-103432	Create BDE files not working	MPCV-EGF-RIBRE-SPR-246
SPR-103433	Monitoring Window: Output list not sorted	MPCV-EGF-RIBRE-SPR-247
SPR-103438	Monitoring window: High CPU load	MPCV-EGF-RIBRE-SPR-251
SPR-103442	CLS Batch compiler: Save log as fails with TCL error message	https://pforge.eso-io.com/jira/browse/ESMEGF-29
SPR-103447	General aggregate for future data structure extensions in MDB to be added	
SPR-103448	Equipment Name to be added for TC Parameters	https://pforge.eso-io.com/jira/browse/ESMEGF-67
SPR-103450	Generic XML Writer renders bad HTML format for multi-records	
SPR-103452	DDED crashes by writing of Routing Definitions for DATA_PACKET	
SPR-103455	Synoptic display not updated	
SPR-103457	Missing consistency check for calibration references	
SPR-103459	I_MDB Copy End Item: Nickname is also copied	
SPR-103460	MMDB Data Dictionary Extension: Support for PRU HDLC command packets	https://pforge.eso-io.com/jira/browse/ESMEGF-66
SPR-103464	Equipment Name to be added for TC Bitsream Layout	https://pforge.eso-io.com/jira/browse/ESMEGF-65
SPR-103465	FIle names too long in ExcelMDB created temp directories	
SPR-103466	Parameter Engineering Unit in EMBEDDED_COMMAND appears twice in generated COMMAND_PACKET parameter	https://pforge.eso-io.com/jira/browse/ESMEGF-55
SPR-103468	Performance enhancements for PARA_ENCODING_LIB	https://pforge.eso-io.com/jira/browse/ESMEGF-60
SPR-103469	Max. number of Embedded Commands in Command Packets reduced	
SPR-103470	CU difference report fails for several CDUs	https://pforge.eso-io.com/jira/browse/ESMEGF-62
SPR-103473	Wrong Entry number inserted via ExcelMDB	
SPR-103474	HLCL history incomplete, lacks any comment entered by user	https://pforge.eso-io.com/jira/browse/ESMEGF-64
SPR-103475	Command Packet Mapping Tool can not handle HDLC Packets	
SPR-103482	Generate Command Packets manipulates frozen Configurations	
SPR-103483	Configuration concept extensions	
SPR-103485	DDED crashes by writing of CT Routing VL number for CT_ROUTING	https://pforge.eso-io.com/jira/browse/ESMEGF-76
SPR-103487	Inconsistent data not reported by consistency checker	
SPR-103492	Generate Command Packet fails with ORA-00918	
SPR-103494	Internal error in HLCL Interpreter	https://pforge.eso-io.com/jira/browse/ESMEGF-90
SPR-103495	HLCL Interpreter fails to check age relations after command interruption	https://pforge.eso-io.com/jira/browse/ESMEGF-104
SPR-103498	Flexible MDB Reports not working	https://pforge.eso-io.com/jira/browse/ESMEGF-105

SPR-103505	HIGH and LOW UCL instrinsics not working as expected	https://pforge.eso-io.com/jira/browse/ESMEGF-123
SPR-103508	Hierarchy could not be locked when trying to edit measurement referencing frozen abstract meas.	https://pforge.eso-io.com/jira/browse/ESMEGF-139
SPR-103510	Crash of TES when trying to write a configuration file	https://pforge.eso-io.com/jira/browse/ESMEGF-154
SPR-103511	DDED becomes unusable after an apostrophe is used in End Item Description	https://pforge.eso-io.com/jira/browse/ESMEGF-153
SPR-103513	end_items.csv extension required	https://pforge.eso-io.com/jira/browse/ESMEGF-178
SPR-103515	Description Field to be added for Command Parameters	
SPR-103516	Calibration Name to be added for Command Parameters	
SPR-103517	Superfluous database fields for BE Routing Definitions	
SPR-103519	Simulator specific calibration definition to be added	
SPR-103521	Need for API to get ALL CGS messages	https://pforge.eso-io.com/jira/projects/ESMEGF/issues/ESMEGF-228
SPR-103523	Generate SCOE behavior depends on buttons pressed at the end of processing	https://pforge.eso-io.com/jira/browse/ESMEGF-226
SPR-103527	Error in gsaf/mda/config/mdb/upgrade/import	https://pforge.eso-io.com/jira/browse/ESMEGF-253
SPR-103528	Add new Attribute Location	
SPR-103530	Missing consistency check for parameter engineering units	https://pforge.eso-io.com/jira/browse/ESMEGF-269
SPR-103532	Generate Command Packet does not report missing embedded commands as error	https://pforge.eso-io.com/jira/browse/ESMEGF-256
SPR-103535	TSCV batch mode startup not reported in message handler	https://pforge.eso-io.com/jira/browse/ESMEGF-164
SPR-103538	CGS logger should be able to send hidden messages	
SPR-103539	Implementation of ESMEGF-64 buggy	https://pforge.eso-io.com/jira/browse/ESMEGF-298

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.

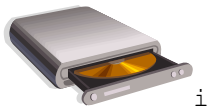
The following syntax *cgsadmin*> **ls -al** means the shell command *ls -al* executed as user cgsadmin, *oracle*> **cd** means the shell command *cd* executed as user oracle.

5.2.1 Needed passwords

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

5.2.2 Installation steps (based on CGS 8.3.2)

1.  login as user <cgsadmin> on DB server host

2.  insert CGS DVD CGS_8.3.2

3. mount DVD

4. install all products from DVD
   cgsadmin> **/<mountpoint>/installer.sh –auto start**

   Select Exit (after installation)

5. unmount DVD

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

6. Acronyms

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