

Titel: **CGS 8.3.1 SW Release Notes**
Title:

Dokumenten Typ: Release Note **Konfigurations-Nr.:** 1130992
Document Type: Configuration Item No.:

Referenz- Nr.: N/A **Klassifikations-Nr.:** N/A
Reference No.: Classification No.:

Lieferbedingungs-Nr.: N/A **Freigabe Nr.:**
DRL/DRD No.: Release No.:

Gruppierung (Dok.): N/A **Gruppierung (Version):**
Group (Doc.-related): Group (Version-related):

Thema:
Subject:

Kurzbeschreibung: This document issue provides the description of the CGS SW release 8.3.1
Abstract:

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Daten/Dokument-Änderungsnachweis/Data/Document Change Record (DCR)

Ausgabe Issue	Datum Date	Betroffener Abschnitt/Paragraph/Seite Affected Section/Paragraph/Page	Änderungsgrund/Kurze Änderungsbeschreibung Reason for Change/Brief Description of Change
1/-	27.08.2014	All	Version for 8.1.0
2/-	02.10.2014	All	Version for 8.1.1
3/-	13.02.2015	All	Version for 8.2.0
4/-	03.07.2015	All	Version for 8.3.0
5/-	24.07.2015	All	Version for 8.3.1

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1. Introduction

1.1 Identification and Scope

This document is the CGS 8.3.1 SW Release Notes. The release is identified by document MPCV SRO (MPCV-RIBRE-SRO-0022).

<u>CI Name:</u>	CGS SW
<u>CI Number:</u>	1130992
<u>CI Variant:</u>	8.3.1

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>
Technical Note			
MPCV-RIBRE-RN-0003	CGS SW Release Notes (Linux)	5	24.07.2015
CGS-RIBRE-TN-0002	The CGS Authorization Concept	2/B	04.09.2006
SW Release Order			
MPCV-RIBRE-SRO-0024	CGS Software Release Order (Linux)	1	24.07.2015
User Manuals			
CGS-RIBRE-SUM-0001	CGS User Manual	21/-	03.07.2015
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
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 8.3.1 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	remark:
CGS software		✓	✓	✓	✓	✓	new commercial baseline upward compatible
MDB	✓	✓	✓	✓	✓	✓	
SAS (CGS API)				✓	✓	✓	recompile requested - new CGS API in 8.1.0
CSS model		✓	✓	✓	✓	✓	
I-Code	✓	✓	✓	✓	✓	✓	rebuild requested in 8.0.0
UCL System Libraries						✓	
Command History	✓	✓	✓	✓	✓	✓	

changed system libraries in 8.3.0

4.7 New or Updated Components

All software components are updated.

4.8 New features in CGS 8.3.1

What's new in CGS 8.3.1 (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 Obsolete Consistency Checks ([SPR-103425](#))

The consistency checks:

- E166
- E167

are deleted in this CGS version, because the enditem types are no longer supported.

4.9 SW Problem Status

4.9.1 SPR Status

For this CGS release 7 SPR's are solved.

<u>ID▲</u>	<u>TITLE</u>	<u>EXTERNAL REFERENCE</u>
SPR-103338	Excel MDB tool needs improvement	MPCV-EGF-RIBRE-SPR-141
SPR-103416	MDB Data Structure Extension: New aggregate for bitstream parameter (analogue) calibrations	MPCV-EGF-RIBRE-SPR-230
SPR-103417	MDB Data Structure Extension: New Attributes needed to support multiple calibration	MPCV-EGF-RIBRE-SPR-225
SPR-103425	Data Dictionary: End Item Type CT_ROUTING to be further descoped.	MPCV-EGF-RIBRE-SPR-240
SPR-103426	CONSTRAINT_ERROR in cls_expression_evaluator.adb: 1016 discriminant check failed	MPCV-EGF-RIBRE-SPR-241
SPR-103427	Compilation Date check of CC for USS_DISPLAY	MPCV-EGF-SPR-242
SPR-103430	CLS Batch Compiler window uses proportional font	MPCV-EGF-RIBRE-SPR-244

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
```

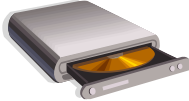
means the shell command `cd` executed as user `oracle`.

5.2.1 Needed passwords

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


5.2.2 Installation steps (based on CGS 8.3.1)

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

2.  insert CGS DVD CGS_8.3.1
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 Committee 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

