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## 1. Introduction

### 1.1 Identification and Scope

This document is the CGS 8.3.5 SW Release Notes. The release is identified by document MPCV SRO.

CI Name: CGS SW

CI Number: 1130992

CI Variant: 8.3.5

### 1.2 Purpose

The purpose of this software release is a delivery of a validated 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. 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.

**Appendix A** 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)	9	20.12.2017
CGS-RIBRE-TN-0002	The CGS Authorization Concept	2/B	04.09.2006
<b>User Manuals</b>			
CGS-RIBRE-SUM-0001	CGS User Manual	22/-	16.09.2016
CGS-RIBRE-SUM-0002	CGS Installation Manual (Linux)	11/-	30.06.2014
CGS-RIBRE-SUM-0003	MDA Reference Manual	2/-	03.07.2015
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	5/-	25.06.2014
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/b	02.10.2015
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
<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

### 3. Release Overview

#### 3.1 CU Version Identification

This CGS SW Release provides no mission database content.

#### 3.2 Overall Checksum

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

- USS 3.7.0 (see 4.3)

#### 3.3 Release Media & their Contents

The System is delivered as ISO image as described in SW Release Order.  
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 System 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 on 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 3.7.0 (\*)
- ✓ 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 corresponding 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 of current CGS 8.3.5 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	8.3.2	8.3.3	8.3.4
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 8.3.5

What's new in CGS 8.3.5 (different from CGS 8.3.4)?

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 8.3.5:

- `ONLINE_TEST_CONTROL.OUT_OF_LIMIT_DISPLAY.ConfirmWhenCloseWindow` ([SPR-103607](#))

Confirm when close the OOL window because of prevent of the loss of data history.

TRUE = confirm when close OOL window

FALSE = (Default) no confirmation when close OOL window

- `CLS.HLCL.DISABLE_UPTODATE_CHECK` ([SPR-103662](#))

This parameter disables the Up To Date check for all HLCL interpreter (CIS, HCI).

No checks regarding Up To Date or Privileges are performed.

Be careful to change this parameter.

FALSE = (Default) All checks are performed - Recommended value

TRUE = No checks regarding Up To Date or Privileges are performed

- `CLS.HLCL.DISPLAY_DISABLE_UPTODATE_CHECK` ([SPR-103662](#))

This parameter controls displaying of a warning message regarding the setting of

`CLS.HLCL.DISABLE_UPTODATE_CHECK = true`:

TRUE = (Default) Display warning in message window and in message log - Recommended value

FALSE = Warning in message log only



## 4.9 SW Problem Status

### 4.9.1 SPR Status and Impact Analysis

For this release 19 SPRs are solved.

<u>ID</u>	<u>TITLE</u>	<u>EXTERNAL REFERENCE</u>
<a href="#">SPR-103607</a>	In the Out Of Limit Display the OOL Time and ENG Value is not displayed when window was closed	<a href="https://pforge.eso-io.com/jira/browse/ESMEGF-598">https://pforge.eso-io.com/jira/browse/ESMEGF-598</a>
<a href="#">SPR-103647</a>	Implement solution of parent SPR for derived values also	
<a href="#">SPR-103648</a>	USS Scope Tools fail with frozen items in scope	<a href="https://pforge.eso-io.com/jira/browse/ESMEGF-698">https://pforge.eso-io.com/jira/browse/ESMEGF-698</a>
<a href="#">SPR-103649</a>	generate_scoe_files: generation of enumeration values of TC statecode parameters not complete	<a href="https://pforge.eso-io.com/jira/browse/ESMEGF-699">https://pforge.eso-io.com/jira/browse/ESMEGF-699</a>
<a href="#">SPR-103651</a>	Integrate SCOE XML 4.6.0 and USS 3.7.0	
<a href="#">SPR-103652</a>	Load_Monitoring_Plan_From_File fails in CGS 8.3.4	<a href="https://pforge.eso-io.com/jira/browse/ESMEGF-716">https://pforge.eso-io.com/jira/browse/ESMEGF-716</a>
<a href="#">SPR-103653</a>	TEV: export of multiple test sessions aborted with TEV internal error after first session	<a href="https://pforge.eso-io.com/jira/browse/ESMEGF-719">https://pforge.eso-io.com/jira/browse/ESMEGF-719</a>
<a href="#">SPR-103654</a>	Enhance CGS Explorer to copy also the parameter not working as expected	<a href="https://pforge.eso-io.com/jira/browse/ESMEGF-658">https://pforge.eso-io.com/jira/browse/ESMEGF-658</a>
<a href="#">SPR-103655</a>	install_uss_as_patch corrupts existing version	<a href="https://pforge.eso-io.com/jira/browse/ESMEGF-721">https://pforge.eso-io.com/jira/browse/ESMEGF-721</a>
<a href="#">SPR-103656</a>	Consistency check error CGS-ERR-0142-2 raised when using engineering unit "NA"	
<a href="#">SPR-103659</a>	Illegal statement in HLCL interpreter causes endless repetition of error message	<a href="https://pforge.eso-io.com/jira/browse/ESMEGF-737">https://pforge.eso-io.com/jira/browse/ESMEGF-737</a>
<a href="#">SPR-103660</a>	Batch compiler does not recognize that item is already compiled	<a href="https://pforge.eso-io.com/jira/browse/ESMEGF-739">https://pforge.eso-io.com/jira/browse/ESMEGF-739</a>
<a href="#">SPR-103661</a>	Compilation fails if done just before midnight (ORA-01853)	<a href="https://pforge.eso-io.com/jira/browse/ESMEGF-738">https://pforge.eso-io.com/jira/browse/ESMEGF-738</a>
<a href="#">SPR-103662</a>	Problem with HLCL Command Window and AP start	<a href="https://pforge.eso-io.com/jira/browse/ESMEGF-740">https://pforge.eso-io.com/jira/browse/ESMEGF-740</a>
<a href="#">SPR-103663</a>	Add support for lines ending with CR/LF to TEXT_FILE_IO	<a href="https://pforge.eso-io.com/jira/browse/ESMEGF-741">https://pforge.eso-io.com/jira/browse/ESMEGF-741</a>
<a href="#">SPR-103664</a>	Need complete monitoring information in CGS messages	<a href="https://pforge.eso-io.com/jira/browse/ESMEGF-732">https://pforge.eso-io.com/jira/browse/ESMEGF-732</a>
<a href="#">SPR-103665</a>	SCOE XML file observables.xml: TRACKER end items missing	<a href="https://pforge.eso-io.com/jira/browse/ESMEGF-743">https://pforge.eso-io.com/jira/browse/ESMEGF-743</a>
<a href="#">SPR-103666</a>	SCOE XML file activatables.xml: Order of formal parameters lost	<a href="https://pforge.eso-io.com/jira/browse/ESMEGF-745">https://pforge.eso-io.com/jira/browse/ESMEGF-745</a>
<a href="#">SPR-103668</a>	SCOE file generator: Errors only shown in message handler, not in log file	<a href="https://pforge.eso-io.com/jira/browse/ESMEGF-749">https://pforge.eso-io.com/jira/browse/ESMEGF-749</a>

## 4.10 Known Problems

### 4.10.1 Further Open Problems

None

### 4.10.2 Known Restrictions

None

## 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`,

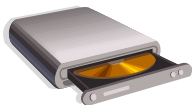
#### 5.2.1 Needed passwords

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

#### 5.2.2 Installation steps



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



2. insert CGS DVD CGS\_8.3.5

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

## A. 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-Shelf
<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

## **B. Definitions**

N/A