

GUCC

(Groupe des Utilisateurs CAO du CERN)

CAD forum

2023-11-06

Agenda

- The GUCC and its mandate
- Local correspondents network
- CAD usage at CERN
- Ongoing working groups
- Useful information



Evolution of the steering committee

GUCS



GUCC



Groupe Utilisateurs CATIA Smarteam





Thanks to Yvon Muttoni

Steering committee:

Stephane Bally EP/CMX Julie Coupard EN/ACE Daniel Del Alamo EN/ACE (scientific secretary) Per-Olof Friman EN/IM PLM team Marc Timmins EN/MME









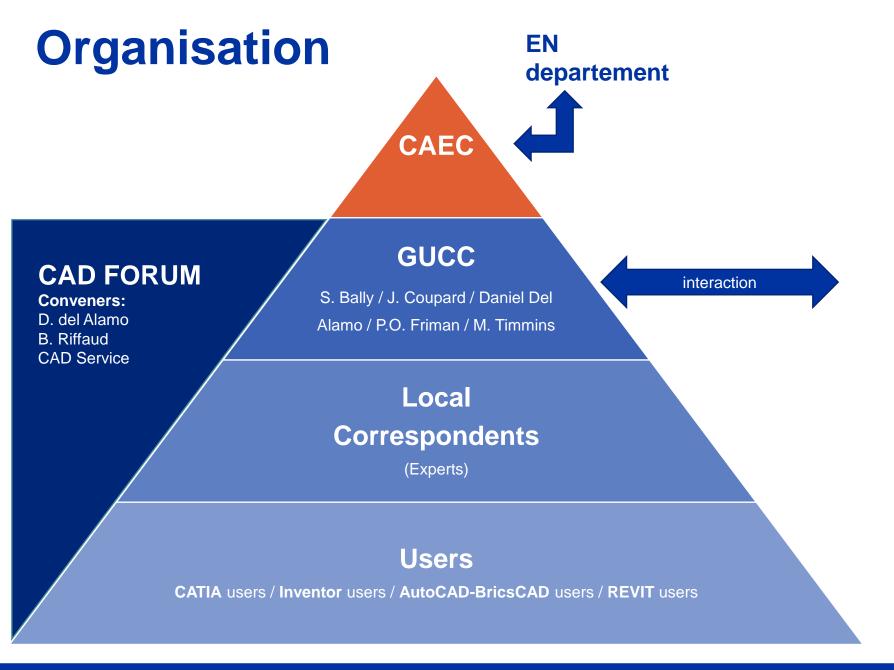
AUTODESK AutoCAD











Design Office Responsible

- Civil Engineering (SCE-SAM): Ludovic Barthelemy
- Experiments
- ATLAS (EP-ADO): Lorenzo Quercia
- Alice
- o CMS (EP-CMX): Stephane Brachet
- LHCb
- Integration
 - o Accelerators (EN-ACE): Julie Coupard
 - o Experimental Areas (BE-EA): Michael Lazzaroni
- Mechanics (EN-MME): Alessandro Bertarelli et Ofelia Capatina
- Mechatronics
- Services
 - o Electrical (EN-EL): Marko Wolf
 - o HVAC (EN-CV): Yannic Body
 - o Tertiary HVAC (SCE-SAM): Christophe Martel

Catalogue

• Raphael Leuxe (EN-MME)

ATS Quality Service

• Stephan Petit (EN-ACE)

Configuration and Layout

•

GUCC External Network

CNRS/IN2P3

· Mathieu Walter (CAD Service)

ESS

• Fabien Rey (Integration) - fabien.rey@ess.eu

ITER

• Eric Martin (Design Office)

SLAC

· Robert Coy (Integration) - rcoy@slac-stanford.edu



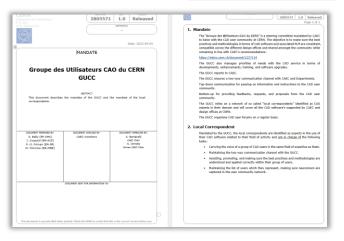
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GUCC mandate

CAEC mandate EDMS 1001439



GUCC mandate EDMS 2805571



- Reports to CAEC
- Sets Priorities to support service for tools enhancements.
- Top-down communication with CAD users.
- Collect feedback from CAD user community.
- Relying on local expert users (local correspondents) for communication and feedback from users.
- · Organisation of forums.

GUCC communication tools

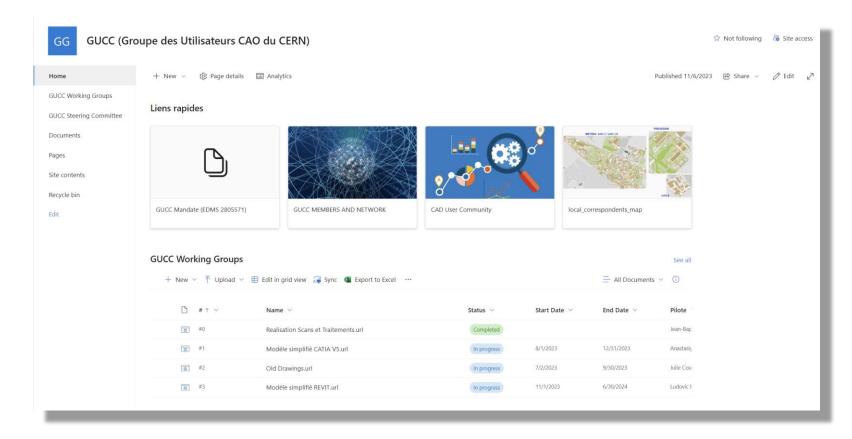
GUCC website

CAD forums

- Conveners
 Daniel del Alamo
 Benoit Riffaud
- 4 forums per year

GUCC-Steering@cern.ch

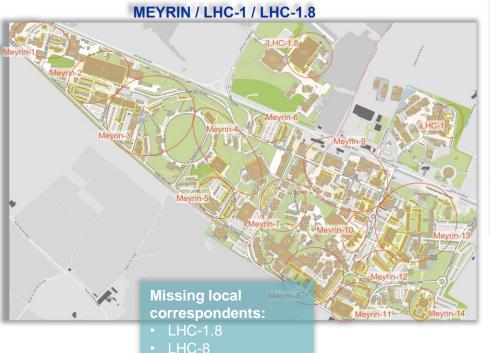
GUCC (Groupe des Utilisateurs CAO du CERN) - Home (sharepoint.com)





GUCC – Local correspondents

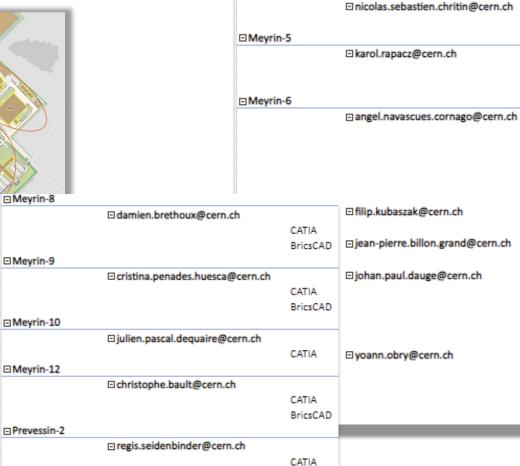
Any volunteers?



Meyrin-2



LHC-8



□ stephane.brachet@cern.ch

CATIA BricsCAD

✓ Mail

⊡edouard.demeure@cern.ch

□ martin.doubek@cern.ch

Site LHC-1

~ CAD_Tool ~

CATIA

CATIA

CATIA BricsCAD

CATIA Revit Inventor AutoCAD BricsCAD

BricsCAD

CATIA

CATIA

Revit

AutoCAD

BricsCAD

CATIA

Revit

AutoCAD

BricsCAD

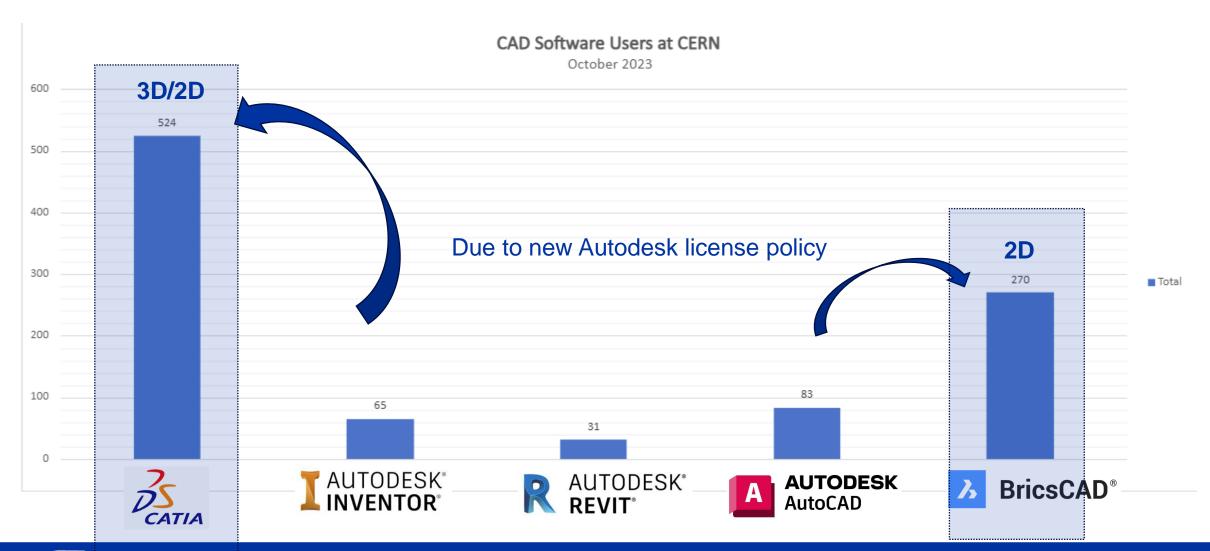
BricsCAD



Grand Total

CAD usage at **CERN**

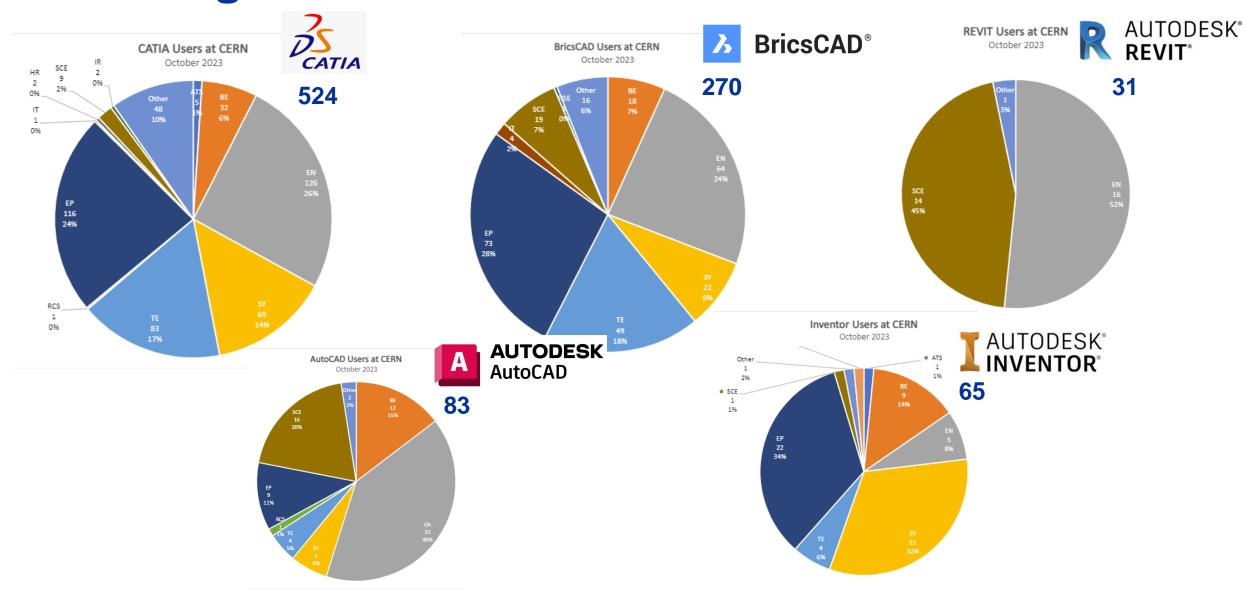
More statistics can be found here: <u>statistics</u>





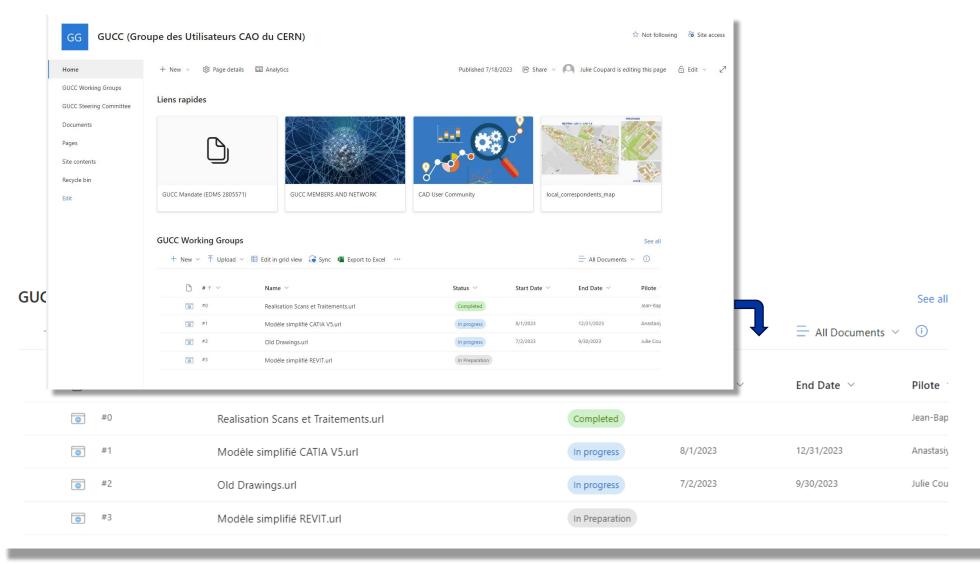
CAD usage at **CERN**

More statistics can be found here: statistics





Ongoing working groups

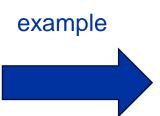


4 working groups1 completed2 in progress1 in preparation

Useful information

Consignes d'utilisation de CATIA au CERN: edms 943040 (exists in French and English)

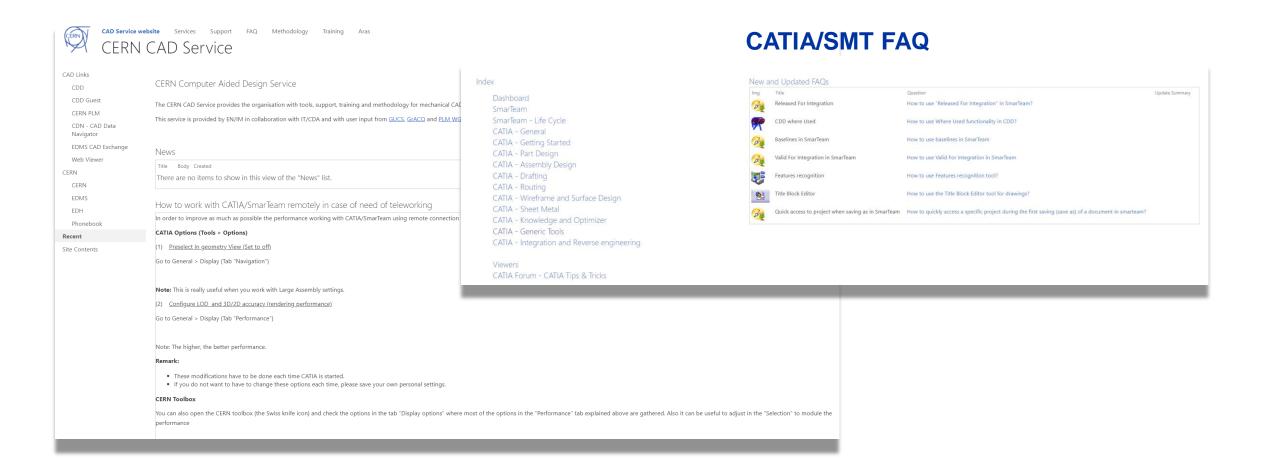






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CAD service website: <u>here</u>





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Access to CATIA & smarteam at CERN

CAEC memorandum



CERN/CAEC EDMS: 1276

EDMS: 1276911 v4 Date: 2015-12-10

MEMORANDUM

To: CERN CATIA and SmarTeam users and their supervisors

Subject: Requirements on user access to CERN CATIA and SmarTeam

From: CERN Computer Aided Engineering Committee (CAEC)

https://caec.web.cern.ch

Date: Approved in the CAEC meeting of 10 December 2015

1. INTRODUCTION

These requirements concern the authorisation to use CATIA CAD-system and its data manager SmarTeam at CERN.

The requirements are set for the following reasons:

- Help users to work efficiently with CATIA and SmarTeam
- · Assure quality of CERN CAE data
- · Protect the system and the existing CAE data
- · Assure efficient use, re-use and sharing of produced data
- Ensure efficient usage of CERN resources in the use and support of CATIA and SmarTeam

2. Persons concerned by these requirements

These access requirements concern all persons needing to *create or modify* native CATIA and/or SmarTeam data at CERN, typically designers and engineers.

For persons needing to view CATIA and/or SmarTeam data there are other tools available, in particular the CAD Data Navigator (CDN): https://edms.cern.ch/cdn.

Further information on the CERN CAD systems and data accesses is available in https://cad-support.web.cern.ch/Pages/Tools.aspx.

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3. ACCESS REQUIREMENTS

The following requirements need to be met to obtain user access to CATIA and SmarTeam at CERN:

- 1. CATIA and SmarTeam are to be used for CERN-related professional work only.
- The user has followed the CERN training course "CATIA SmarTeam Basics", earlier versions of this course, or has subscribed to this training and is supported by a tutor, see chapter 5 below.

4. ACCESS EXCEPTIONS:

- A user whose contract with CERN does not exceed 6 months, for example a summer student, may be given access provided he/she is supported by a tutor as described in chapter 5 below. A user falling under this exception shall turn to his/her tutor for initiation and local support on CATIA and SmarTeam use².
- If the user already has a proven³ knowledge of CATIA, the "CATIA-SmarTeam Basics" course can be replaced by a shorter training course "SmarTeam - CATIA data manager at CERN".

5. Tutor

The tutor is to provide the initiation and local support to a new or temporary user who has not followed the CERN CATIA-SmarTeam training.

The tutor needs to be an experienced CATIA-SmarTeam user him/herself and must have followed the CERN training course "CATIA - SmarTeam Basics", "SmarTeam - CATIA data manager at CERN" or an earlier version of these courses and the "SmarTeam - Refresher".

Very importantly, the tutor shall be sufficiently available to provide the needed local support and to watch that CATIA and SmarTeam are used respecting the current rules.

The *supervisor* of the new or temporary user is responsible for the assignment of the tutor and also for the consequences in case CATIA-SmarTeam usage rules are not respected.

6. DATA STORAGE

All CATIA data shall be stored in SmarTeam. Existing projects that have not yet migrated from the initial dedicated DFS working area shall plan for migration of their projects to SmarTeam and contact CAD support for advice on the process.

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¹ CERN reserves the right to revoke access if the training is not followed due to refusal by management, withdrawal by the user or any other reasons. The user should inform the CERN CAD support of any such events.

² CERN reserves the right to revoke access if the tutor does not fulfil his/her role and the user is found to depend on the help of the CERN CAD support.

³ Documented equivalent training or prior extensive professional usage of CATIA V5.

Thank you for your attention

Questions?



