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CONAN CONjunction ANalysis Tool

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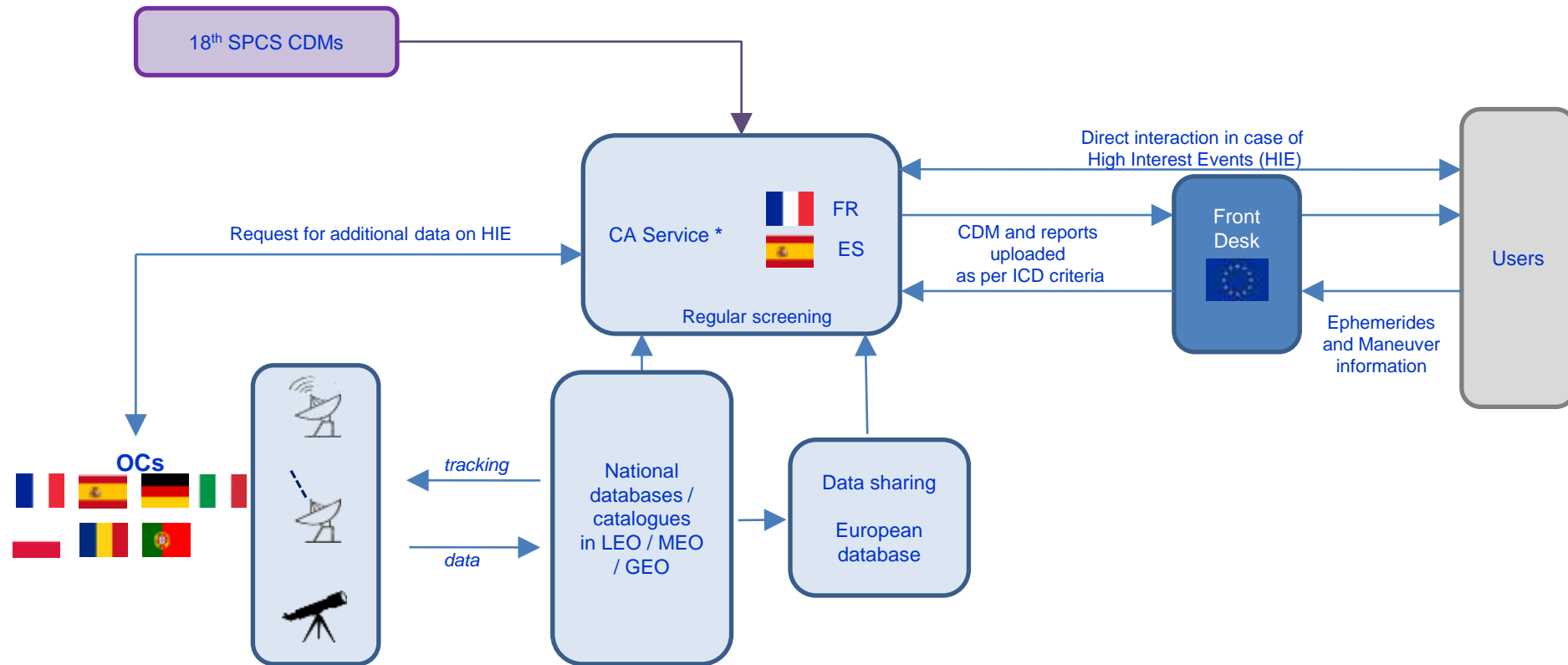
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Agenda

- Introduction
- Objectives
- Functionalities
- Design
- Algorithms

- **EU SST CA Service Data Flow**



Introduction

- S3TOC **operations**



- S3TOC **evolution**
 - **CONAN**
 - Other projects...



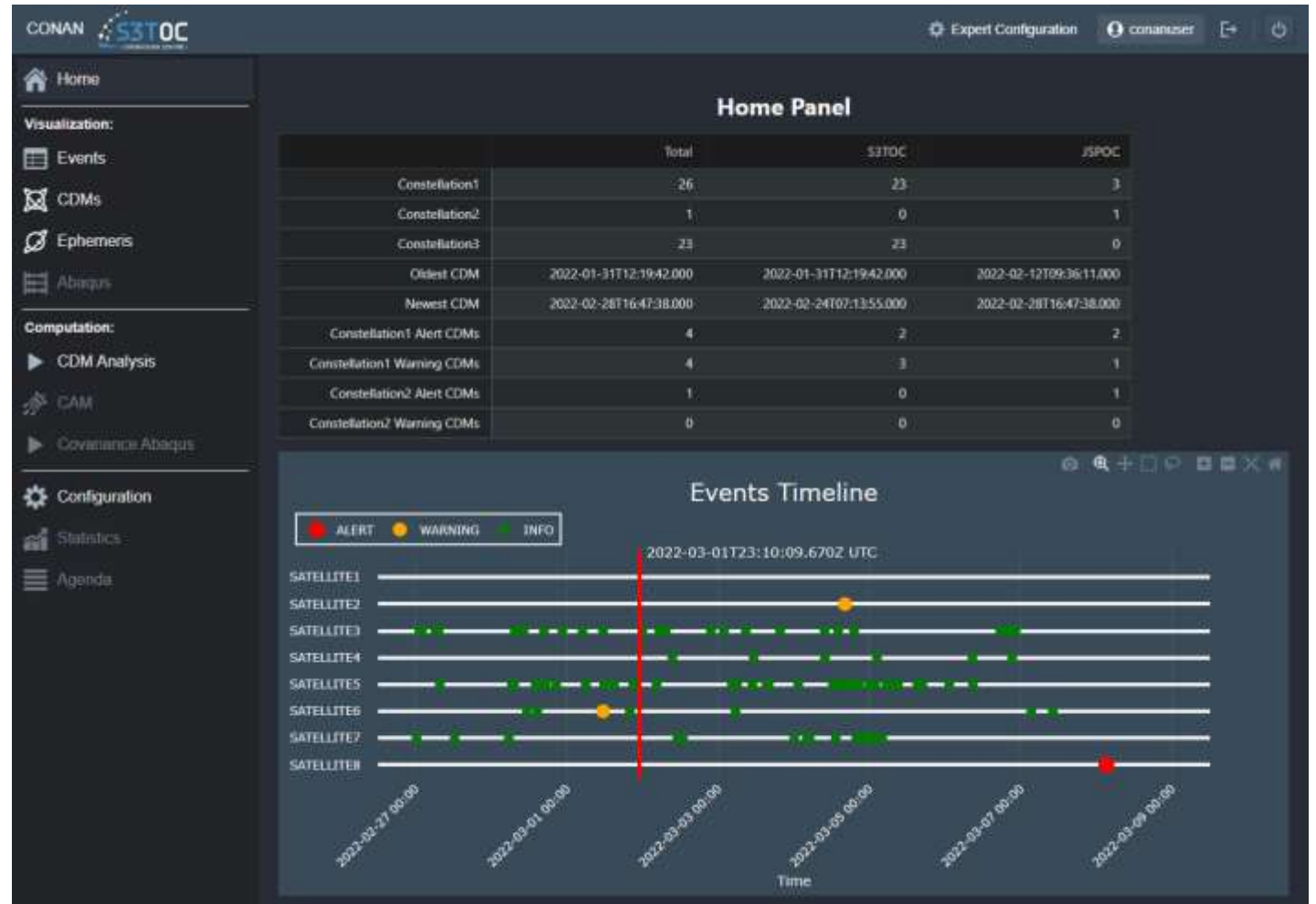
Spanish companies consortium



- > **Improve S3TOC** capabilities and response times
- > Provide **O/Os accessibility** for risk **auto evaluation**
- > Increase **communication efficiency** between S3TOC and O/Os
- > **Harmonize** the CA Service **S3TOC / CNES**



- CA Service Summary
- Visualization:
 - Conjunction Events
 - CDMs
 - Ephemeris
 - Covariance Abaquus
- Computation
 - CDM Analysis
 - CAM
 - Covariance Abaquus
- CA Service Statistics
- Agenda



CONAN App

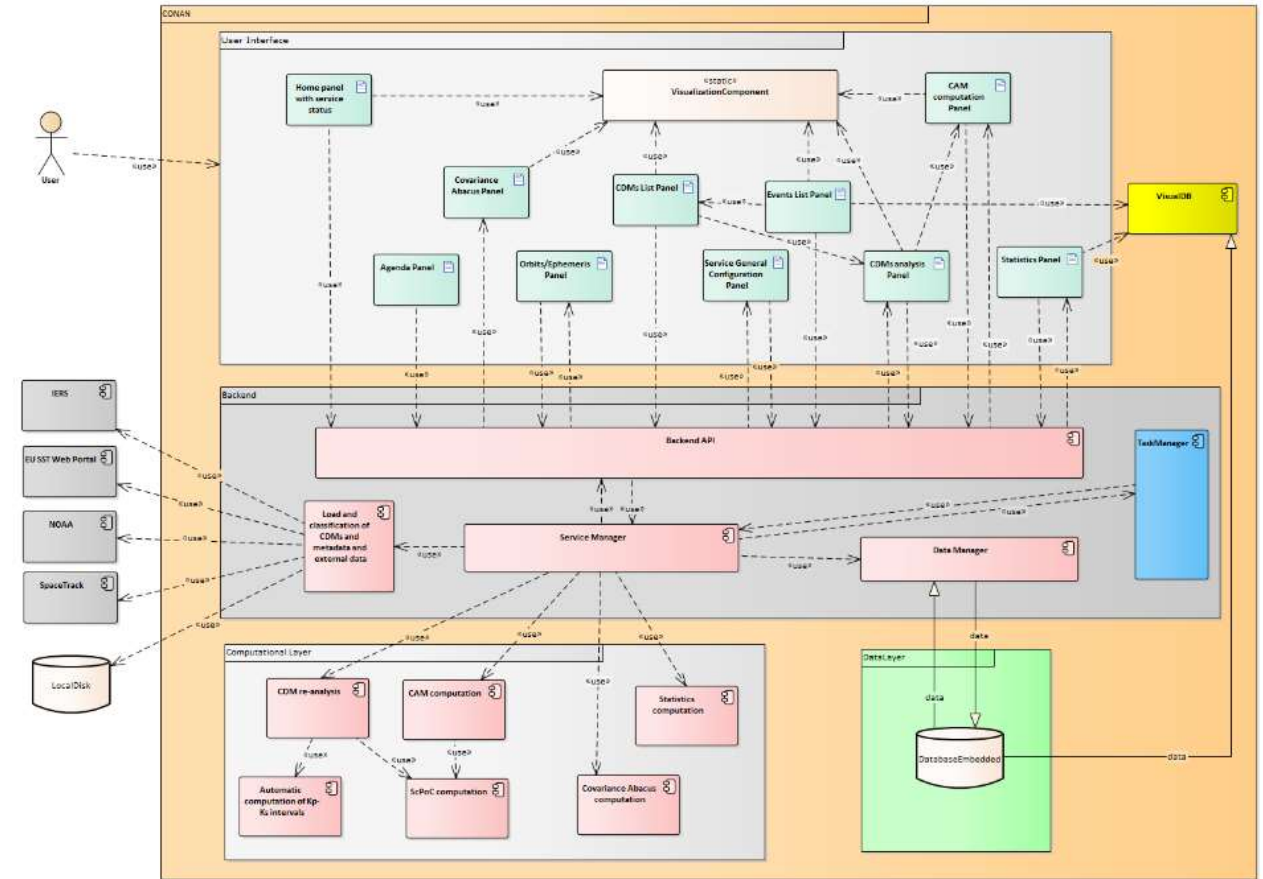
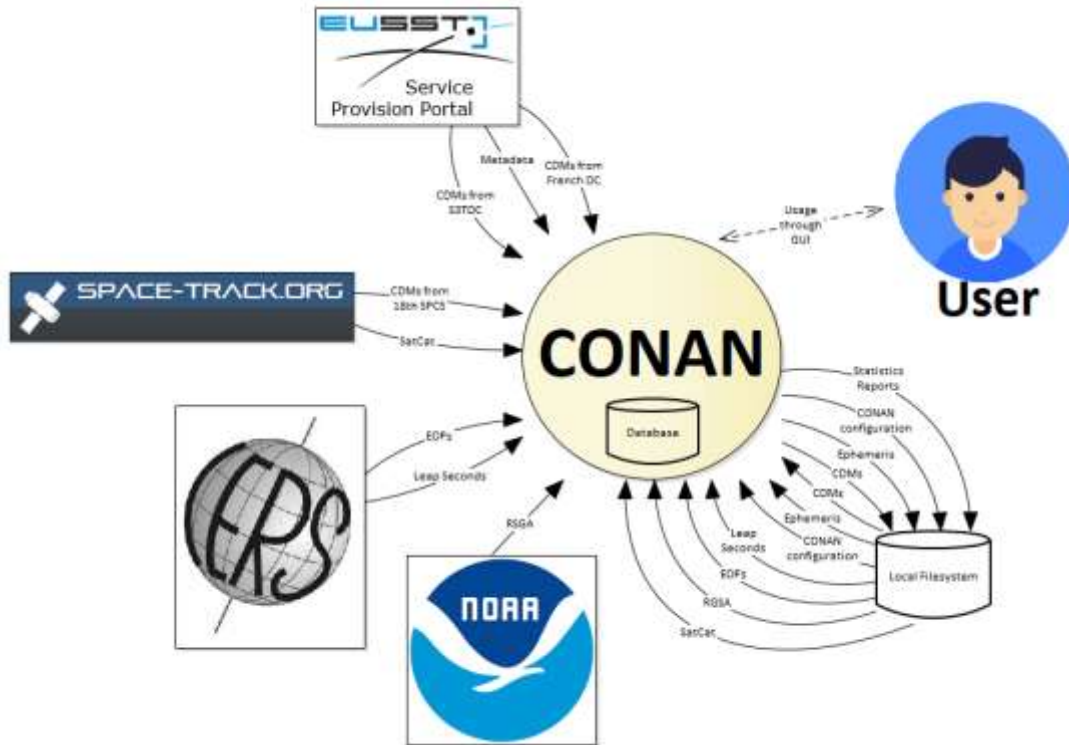
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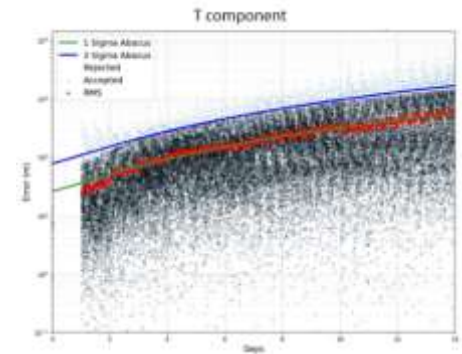
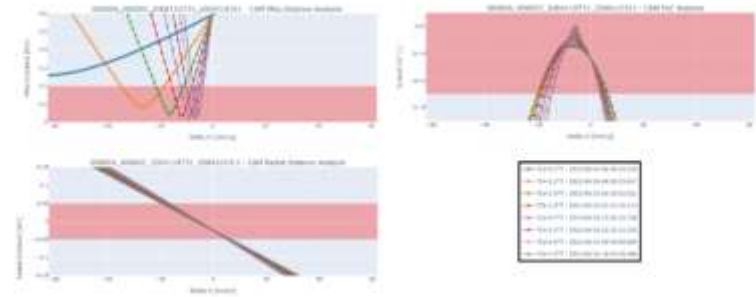
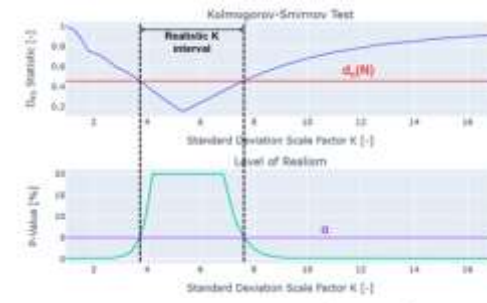
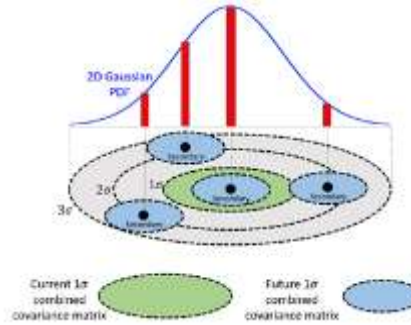
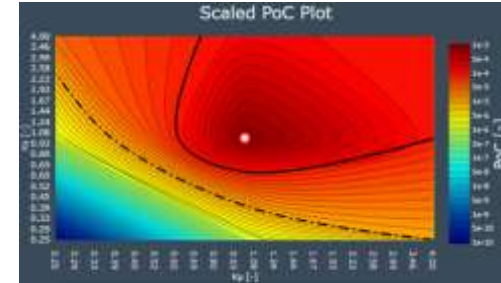
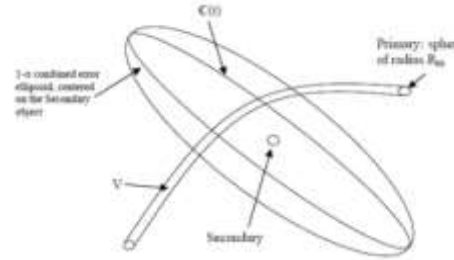
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- Interfaces

- Architecture: Frontend / Backend / Computational libraries



- Risk Level classification
ALERT / **WARNING** / **INFO**
- Probability of collision
 - Akella-Alfriend / Hall / Automatic
 - Global probability of collision
- Scaled Probability of Collision
 - Kp-Ks intervals: Fixed / Automatic
- Next-Day-Analysis
- CAM
 - CAM solutions for 1 CDM
 - Global risk reduction for multiple conjunctions
- Covariance abacus



THANK YOU VERY MUCH !

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