

REUNA – SA3CC Sergio Cofré, Albert Astudillo May 2025



REUNA in numbers and current infrastructure





+11.00 km

Network infraestructure

50 Organizations connected

30+

Years promoting Chilean digital development

18

Points of presence located in the main cities

1300+ km

With Patagonia project: Connectivity to Punta Arenas

Solutions for our community





- eduroam
- eduVPN
- eduSCAN
- COFRE Federated Identity
- eduGain



- Large Meeting
- Zoom Rooms

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Reach history collaborating with astronomical community



AURA becomes

2005





2010

EVALSO Project Infrastructure is build together with ESO to deliver network services from Antofagasta – Santiago to ESO/ALMA/REUNA/RedC LARA

2012 ALMA and **REUNA** signed MoU for the managing of the network

ALMA



2018

Vera Rubin Observatory connects to REUNA to send its traffic to USA using a link between La Serena - Santiago of 100 Gbps

2020

AAP and REUNA signed MoU to collaborate in the implementation of network infrastructure to deliver services to projects located on the Chajnantor plateau





2022 ESO becomes a member of REUNA

2023

Chajnantor PoP installed. It'll connect astronomical projects located in the area





What's new from last SA3CC?



New institutions have been connected to REUNA











New Infrastructure Implemented for ESO and ALMA

- REUNA has implemented new infrastructure to support ESO and ALMA in achieving their technological goals for the next 10 years.
- The new bandwidth capacity reaches 80 Gbps shared between both observatories, with a potential expansion up to 100 Gbps.



SwD Calama





+



Ciencia y Educación en Red



SwD

Alma

AO-Compan

A collaborative connectivity to bring services to more astronomical projects in Atacama Desert







Happy anniversary of our connection with Cerro Toco!



The Simons Observatory celebrate its first anniversary connected to the Chajnantor Node in May 2025



CWDM infrastructure to deliver different lambdas to each project, enabling any interested project to connect with its own dedicated wavelength



Patagonia Project: Punta Arenas PoP



Two new institutions have been connected to the Punta Arenas POP of the Patagonia Project.





Antarctica: A WORLD POLE FOR SCIENCE

- Antarctica holds important research centers and facilities given its unique characteristics for earth sciences and research.
- CAF and the Chilean Telecommunication Subsecretary signed agreement to fund feasibility study to be done during 2024.
- Feasibility study will provide technical, legal, financial, and economic definitions for the implementation of the first submarine cable between Chile and the permanent bases in Antarctica.
- REUNA has been invited to participated as a stakeholder of the project.





International Connectivity

- 100 Gbps connectivity with RedCLARA with technical feasibility to rise to 200 Gbps
- We are founders of RedCLARA, members of BELLA and partners with Amlight.
- Working with BELLA 2 to expand the connectivity







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