

CUDI

Research and Education National Network in Mexico

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➤ Background

Since 2000, **Mexico Partnership Services** in Mexico from **Texas A&M University** has been affiliated with “**Corporación Universitaria para el Desarrollo de Internet, A.C.**” (**CUDI**), as an **Affiliated Academic Member**.

CUDI manages the **National Network of Research and Education (RNIE)** also known as “**Internet 2**” (*Computer network with advanced capabilities separate from the current commercial Internet in Mexico*).

An **Affiliated Academic Member** is a University or Research Institute committed to the development and use of educational applications, advanced telecommunications, and computer network technology.

➤ Benefits

Being an **Affiliated Academic Member** provides multiple benefits to Texas A&M faculty and students participating in research projects and educational activities with more than 85% of universities, research centers, and institutes in Mexico using said educational applications, advanced telecommunications, and computer network technology.

CUDI offers its members the following:

1. **An infrastructure of high capacity links** (dorsal network) covers the entire Mexico national territory and allows interconnection with main academic networks in the United States and the rest of the world.
2. **Access to the digital archive** <http://repositorio.cudi.edu.mx/> containing audio and video collections regarding **CUDI community** activity such as virtual days, conferences, courses, workshops, board meetings (expertise areas: art, sciences, culture, engineering, astronomy, education, and math), **and technical groups** (expertise areas: technology, connectivity).
3. **eduroam (Education Roaming)** : A secure, world-wide roaming access service developed for the international research and education community. The service allows students, researchers and staff from participating institutions to obtain Internet connectivity across **campus** and for use when visiting other participating institutions by simply opening their laptop
<https://www.eduroam.org/what-is-eduroam/>

Texas A&M University, College Station has also made **eduroam** service available <https://www.eduroam.us/node/2837>. The **eduroam key** to access the service must be provided by Texas A&M. The **eduroam** locations can be identified through the "eduroam companion" application on iOS or Android or on https://monitor.eduroam.org/map_service_loc.php.

Mexico Partnership Services can connect through **CUDI**, if required.

4. Access to state-of-the-art educational materials (learning objects, digital libraries).

The following resources have open access:

Magazine Collections	Web sites
▶ Elsevier	▶ Revistas CONACyT
▶ Emerald	▶ PubMed - NCBI
▶ IOP	▶ Portal de Editor
▶ Nature	▶ Latindex
▶ Oxford	▶ CLASE
▶ Springer	▶ Periódica
▶ Wiley	▶ SciELO México
	▶ REDALYC
	▶ La Referencia
	▶ Repositorio Digital

5. CUDI virtual conference rooms for meetings using a PC, Mac, Android, Skype for Business, IOS (iPhone, iPad), or Videoconference equipment <https://vc.cudi.edu.mx/webapp/>

Mexico Partnership Services has access to two virtual rooms: one for administrators and one for faculty. Please, contact us to receive the manual about how to use the rooms.

6. Participation in the CUDI communities which translates into constant information in: Education, Libraries, Grids, Mathematics, Astronomy, Earth Sciences, Ecology, Shared Laboratories, Health, and Student Media.

Click on the following link to see Applications <http://www.cudi.edu.mx/comite-de-aplicaciones> and Technical Groups <http://www.cudi.edu.mx/comite-de-redes> in development within the National Network of Research and Education (RNIE) project in Mexico.

7. A space called “My site” allows faculty to:

- * Save and share files, organize a schedule, describe a profile, organize communities and groups of CUDI technicians of interest.
- * Be part of the CUDI community, participating in the exchange of scientific knowledge and collaborate with other members of the CUDI community.
- * Meet academics and researchers who working on topics of interest.
- * Be part of the study and discussion groups generated in the CUDI Platform.
- * Publish articles or research projects in CUDI space.
- * Contribute content and ideas in the community or technical groups of interest.
- * Receive information about CUDI Network projects, announcements, and events generated by CUDI communities and technical groups.

How to access My site and belong to the Communities and Groups of Technicians

1. Register in the CUDI Platform: <https://idp.fenix.org.mx/registration/>
2. In the following days, the **FENIX** Platform will send an email informing that the account has been activated.
3. Enter into the CUDI Platform: <http://virtual.cudi.edu.mx>
4. Select the option Acceso Federado (Federated Access), in the upper right part of the screen
5. Click on the Identity Provider **FENIX**
6. Enter the registered email and password and click on the Login button
7. Accept the transfer of user information from FENIX to virtual CUDI
8. Complete the Profile data, in the button on the left sidebar
9. Select the tool **Pertenencia** (Membership) in the button on the left sidebar
10. Click on the right tab Registration to CUDI sites
11. Identify the Community and / or Technical Group of interest
12. Click on the option **Pertenecer** (Belong)

Once on the CUDI platform, users can also utilize tools such as:

VC-Espresso – Web Conference

SIVIC - RedCLARA Videoconference Service

eNVIO

Funds and Partners RedCLARA

8. VC-Espresso - Web Conference

VC Espresso is the desktop videoconferencing service provided by RedCLARA (Latin American Cooperation of Advanced Networks) for CUDI members. Use the service by entering technical group and community collaboration spaces in the CUDI platform or by entering through the RedCLARA collaborative service.

With VC Espresso, members communicate in real time (audio and video) for as long as needed with other community or technical group members. The meeting can be with a single member or up to 20 members. VC Espresso facilitates meetings through a web browser application connection that permits a member to maintain a long-term connection with session members or other Latin American research groups.

VC Espresso allows users to share PDF presentations, PowerPoints, and images with meeting attendees. Additionally, users can share a desktop and perform live demonstrations, manage attendee profiles, use note-taking tools, collaborate on blackboard, and chat. Everything independently of the users operating system because VC Espresso works with Google Chrome, Mozilla Firefox, and Internet Explorer browsers in the latest versions and corresponding Flash add-ons.

Important: A quality VC Espresso can only be secured if ALL participants are connected to the Advanced Networks.

VC-Espresso is only for computer access. Each registered user has their own virtual room and even if there are 1000 registered Texas A&M University users, each one will have their own

virtual room connection and can generate their own sessions by sending the URL to other user participants.

9. SIVIC - RedCLARA Videoconference Service

The H323 Videoconferencing reservation system allows faculty to facilitate a search of rooms enabled with multipoint units for videoconferences in Latin America. In the same space, SIVIC permits users to organize videoconferences in different countries and allows all participants to reserve their own videoconferencing room in the region.

SIVIC is available 24 hours a day, 365 days a year, and will allow institutional users to reserve a certified video conferencing room to hold high quality meetings and online events. SIVIC guarantees the effective reservation management and the appropriate use of videoconferencing rooms, according to user policies of each institution. Through this system, users can also send invitations to third parties and make the activity public, expanding event visibility.

10. eNVIO

eNVIO is a service provided by RedCLARA the Latin American Cooperation of Advanced Networks, which allows CUDI users to transfer large digital files which exceed the capacity of sending mail system.

eNVIO works by loading large amounts of information to a temporary server in the cloud for up to 20 days by RedCLARA that delivers a web address from where any person or group can download their material, as many times as required.

The service is available for the upload and transfer of files by any user registered in FENIX the National Federation of Mexican Identity and in the Collaborative of RedCLARA.

Users can send a private download link (link / URL - Web address) to a maximum of 100 emails.

The system supports zip, .rar, .doc, .xls, .pdf, .docx, .odt, .xlsx, .mov extensions and a maximum size of 10GB. Files will remain hosted in the system for up to a 20 day maximum; once the deadline has expired, files are automatically eliminated by the system, ensuring information privacy and security.

11. Funds and Partners RedCLARA (Latin American Cooperation of Advanced Networks): This tool allows searching for financing opportunities for research projects and identifying, among the users of the CUDI platform and from RedCLARA participants, potential stakeholders for user collaboration in the same areas of interest. RedCLARA's platform contains three concepts:

1) Calls: Contains call information to present projects made by diverse financing sources, whose due dates are close. Using the available options, the user can sort them alphabetically or from the most recent or the oldest. In addition, if a user knows about a

funding source that does not appear among the options, it can suggest adding that fund to the database, by sending a message to the administrator with the URL.

- 2) **Partners:** List of possible contacts, according to profile information entered by users.
- 3) **Publications:** Publications made by other users looking for new members for their projects or who have announced their availability to join other existing searches. The user can also publish a notice specifying the discipline, country of origin, and giving a brief description of interests.

How to access tool Funds and Partners

1. Enter into the CUDI Platform: <http://virtual.cudi.edu.mx>
2. Select the option Acceso Federado (Federated Access), in the upper right part of the screen
3. Click on the Identity Provider **FENIX**
4. Enter the registered email and password and click on the Login button
5. Accept the transfer of user information from FENIX to virtual CUDI
6. Select the tool **Fondos** (Funds) in the button on the left sidebar

12. Informative virtual events (virtual days) to spread the importance of the CUDI network, projects and applications, inform the community of actions carried out by member institutions related to the CUDI's work, results of projects that run on the network, events, announcements, and activities carried out in the Mexican National Network of Research and Education (RNIE) and the National Networks of Research and Education (RNIE's) of Latin America.

Also, to find out about the events held by CUDI members, annual meetings, conferences, workshops, and courses that have been carried out or are about to be carried out.

Click on the following link to see past virtual events: http://www.cudi.edu.mx/dias_cudi/dias-virtuales-cudi

13. Annual meetings to inform about collaboration opportunities that can be achieved using the RedCUDI, present and discuss advancements, applications, challenges and opportunities of the National Network of Research and Education.

There are two modalities of CUDI Meetings:

1. Aimed at authorities, researchers, teachers, companies and scholars interested in knowing, presenting, and discussing the advances in applications, challenges and opportunities of the **RNIE**, with the objective of:
 - Disseminating advances of RedCUDI
 - Continue to offer a forum in Mexico for Advanced Internet development
 - Promote collaboration among the institutions from the CUDI community in Mexico
 - Strengthen links with the academic community
2. Focused on General Directors, General and Academic Secretaries, Research Coordinators, Deans, College Directors, Directors of Institutes and Research Centers,

academic authorities, and invited CUDI members with the objective of informing about the progress and collaboration opportunities that can be achieved by using RedCUDI.

Click on the following link for information regarding past meetings:
<http://www.cudi.edu.mx/acervos/reuniones-cudi/reuniones>