

Certificarea serviciilor specifice

Serviciile oferite de IFIN GRID sunt certificare de organisme abilitate in acest sens si sunt avizate de autoritatile de reglementare in domeniu, dupa cum urmeaza.


1. Certificarea calitatii serviciilor WLCG

Serviciile specifice furnizate de catre IFIN GRID pentru WLCG au fost recunoscute si autorizate de catre Autoritatea de stat pentru cercetare-dezvoltare si de catre CERN, prin semnarea documentului *Memorandum of Understanding for Collaboration in the Deployment and Exploitation of the Worldwide LHC Computing Grid* (WLCG, <https://wlcg.web.cern.ch/mou>, **Anexa A3.2**

In Memorandumului de Intelegere se certifica nivelul minimal de calitate a serviciilor de calcul oferite de centrele IFIN GRID pentru cele 3 experimente LHC pe care le deserveasc (ALICE, Atlas si LHCb). Indeplinirea criteriului de disponibilitate a acestor servicii pentru cel putin 95% din timpul fizic este monitorizata si raportata lunar de catre *LCG Office* – CERN. Pentru exemplificare, in Anexa A1.8 se reproduc ultimele rapoarte ale LCG Office (pentru lunile iunie-august 2022).


2. Certificarea calitatii serviciilor grid generice pentru cele 3 site-uri ale IFIN GRID

Furnizarea serviciilor grid generice de catre fiecare site aflate in componenta IFIN GRID este certificata de catre organismul abilitat de certificare la nivel european (*European Grid Infrastructure* - EGI). Certificarea EGI atesta satisfacerea conditiilor tehnice care trebuie indeplinite pentru integrarea site-urilor furnizoare de servicii in gridul european. Confirmarea certificarii este publicata in format electronic pe pagina web a bazei de date GOCDDB (*Grid Configuration Database*, <https://gocdb-preprod.egi.eu/portal/>), care cuprinde informatiile actualizate privind toate site-urile grid inregistrate de EGI. Mai jos sunt reproduse paginile din GOCDDB corespunzatoare site-urilor GRIDIFIN, RO-07-NIPNE si NIHAM din IFIN GRID, cu specificatia *Certification Status* „Certified”.




Site: GRIDIFIN

National Institute for Physics and Nuclear Engineering, IT Department
Computational research in physics and related areas

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Contact Info	
E-Mail	gridifin@nipne.ro
Telephone	+40214042361
Emergency Tel	+40214042361
CSIRT Tel	+40752088967
CSIRT E-Mail	gridifin@nipne.ro

Project Data	
NGI/ROC	NGI_RO
Infrastructure	Production
Certification Status	Certified Change
Scope Tags	EGI




Site: NIHAM

NIHAM

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Contact Info	
E-Mail	niham-l@niham.nipne.ro
Telephone	+40747231897
Emergency Tel	+40747231897
CSIRT Tel	+40747231897
CSIRT E-Mail	g-sec@niham.nipne.ro

Project Data	
NGI/ROC	NGI_RO
Infrastructure	Production
Certification Status	Certified Change
Scope Tags	alice(x), EGI, tier2(x), wlcg(x)



Site: RO-07-NIPNE

National Institut of Pysics and Nuclear Engineering, IT Department
update


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Contact Info	
E-Mail	ciubancan@nipne.ro
Telephone	+40214042361
Emergency Tel	+40214042361
CSIRT Tel	+40761345687
CSIRT E-Mail	ciubancan@nipne.ro

Project Data	
NGI/ROC	NGI_RO
Infrastructure	Production
Certification Status	Certified Change
Scope Tags	alice(x), atlas(x), EGI, lhcb(x), tier2(x), wlcg(x)

3. Certificarea centrului NIHAM ca Research Partner Facility in colaborarea ALICE

Documentul care confirma satisfacerea de catre site-ul grid NIHAM a tuturor cerintelor pentru clasificarea acestuia ca Partner Research Facility al colaborarii ALICE este reprodus mai jos.



**ORGANISATION EUROPEENNE POUR LA RECHERCHE NUCLEAIRE
EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH**

Laboratoire Européen pour la Physique des Particules
European Laboratory for Particle Physics

GENEVE, SUISSE
GENEVA, SWITZERLAND

Mail address: CERN, PH Division
CH-1211 GENEVE 23
Switzerland

Telex / Telex : 419000 CER CH
Télégramme/Telegram : CERNLAB-GENEVE
Téléphone/Telephone :
Direct : +41 22 767 5955
Central/Exchange : +41 22 767 6111

E-mail : Jurgen.Schukraft@cern.ch

Votre référence/Your reference:
Notre référence/Our reference:

Geneva, October 1, 2010

Subject: The Computing activity of the Hadron Physics Department of the Bucharest National Institute for Physics and Nuclear Engineering

To Whom It May Concern:

As is well known, the amount of experimental information which is accessed by ALICE experiment at LHC – CERN reaches a few PB per year. The storage and processing of such an amount of information is far beyond the capability of any computing center in the world. Besides these, one should consider that in ALICE are involved about 1000 researchers who need to access such information and use it for calibration and analysis in order to extract physics information. A distributed computing system called AliEn was developed by ALICE Collaboration which allows performing distributed productions harnessing the computing resources of the collaborating institutes within a computing GRID infrastructure. This system is providing ALICE with the necessary distributed computing functionality and it is using the latest technologies in the field.

Hadron Physics Department of the National Institute for Physics and Nuclear Engineering from Bucharest, Romania embarked on these activities initiated at CERN more than 10 years ago.

With relatively limited funds, a Tier 3 – ALICE computing center was organized at the level of HPD in NIPNE-Bucharest, being one of the first components of the ALICE-Grid and the first international GRID site in Romania - NIHAM.

Over the years, based on national and international financial support, NIHAM was permanently upgraded, presently having more than 1500 cores and about 1 PB storage with state of the art infrastructure in terms of cooling, UPS industrial units, 500 kW Diesel generator, monitoring and protection systems which allow a trustful and permanent operation of NIHAM Data Centre.

NIHAM Data Centre is one of the main components of ALICE Grid, very important for the next coming years for research activities related to strongly interacting matter using the experimental information delivered by ALICE experiment which starting from November 2009 is continuously running.

Therefore, such an infrastructure fulfills all the requirements to be classified as Partner Research Facility with large impact at national level and in large international collaborations in which Romania is involved.

Yours sincerely

Jurgen Schukraft
ALICE Spokesperson

Federico Carminati
ALICE Computing Coordinator