

## MINOS - Support #15782

Milestone # 15057 (Closed): Minos SLF5 retirement

### minos-slf5 exemption

03/08/2017 12:40 PM - Arthur Kreymer

<b>Status:</b>	Closed	<b>Start date:</b>	03/08/2017
<b>Priority:</b>	Normal	<b>Due date:</b>	09/04/2017
<b>Assignee:</b>	Arthur Kreymer	<b>% Done:</b>	100%
<b>Category:</b>		<b>Estimated time:</b>	2.00 hours
<b>Target version:</b>			
<b>Description</b>			
Issue a 6 month Exemption request for minos-slf5 past April 1			

### History

#### #1 - 03/08/2017 02:01 PM - Arthur Kreymer

- % Done changed from 0 to 20

- Estimated time set to 2.00 h

RITM0535672 03/08 minosgpvm01 SLF5 variance

minosgpvm01  
Property Tag  
7 Month

Reason for request

Minos needs a reference SLF5 interactive system for diagnosing unexpected issues that may be seen by Minos after the SLF6 migration. Production processes have moved to SLF6 last year. but user code builds only moved in February.

Compensatory controls

Restrict incoming ssh access to minosgpvm03

#### #2 - 03/17/2017 03:10 PM - Arthur Kreymer

RITM0535672 was approved 03/15  
Approved by CSBoard until 9/8/2017.

Compensatory controls specifics :

o Controls will be implemented by ECF/SSI as soon as the plan is approved, well ahead of April 1

o User accounts will be limited to the Minos NIS group maintained by ECF/SSI for the other Minos systems in GPCF.

o syslogs will be sent to clogger ( already set up )

o iptables will restrict incoming connections to ssh from minosgpvm03

o iptables will restrict outgoing connections to \*.fnal.gov

o Existing NFS mounts will be maintained :

homesrv01.fnal.gov:/home  
if-nas-0.fnal.gov:/minos/app  
if-nas-0.fnal.gov:/nusoft/app  
blue2:/fermigrid-app  
blue2:/fermigrid-data  
blue2:/fermigrid-fermiapp  
blue3.fnal.gov:/minos/data  
blue3:/nusoft/data  
pnfs-stken:/pnfs/fs/usr/minos

o Minos will monitor user activity using ganglia and prochisotry

Activity will be tracked in RITM0536827

o several SSI administrative nodes will also need access

**#3 - 03/17/2017 03:10 PM - Arthur Kreymer**

- Status changed from Work in progress to Resolved  
- % Done changed from 20 to 100

**#4 - 06/19/2017 07:38 AM - Arthur Kreymer**

- Due date changed from 03/31/2017 to 09/04/2017  
- Status changed from Resolved to Work in progress  
- Priority changed from High to Normal  
- % Done changed from 100 to 70

Re-opening this Issue to track the extended exemption.

Will leave this issue open until minos-slf5 is retired.

**#5 - 06/19/2017 07:48 AM - Arthur Kreymer**

Date: Mon, 19 Jun 2017 08:53:47 +0200  
From: Leigh Whitehead <[leigh.howard.whitehead@cern.ch](mailto:leigh.howard.whitehead@cern.ch)>  
To: Arthur Kreymer <[kreymer@fnal.gov](mailto:kreymer@fnal.gov)>  
Subject: Requesting extended life for the SLF5 machine

Hi Art,

I think I have collected the required information from the collaboration, so should I submit a service desk ticket for this request\$

Thanks,

Leigh  
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Thanks !

The request would go through  
Service Desk  
Scientific Computing Services  
Scientific Server Infrastructure  
Interactive Server Facility  
Submit a request to service providers

This could come from you or Adam Schreckenberger ( Offline Coordinator )  
He and I should help draft it.

I have reopened the previous Wiki Issue for the minos-slf5 exemption.  
We should draft the request there before submission.

<https://cdcv.s.fnal.gov/redmine/issues/15782>

**#6 - 06/19/2017 07:53 AM - Leigh Whitehead**

Here is my first attempt:

The MINOS software has a dependency on NEUGEN, a neutrino cross-section calculation package only available in 32-bit due to its age. The experiment does not have the personnel or the required expertise to update this software package to run natively in 64-bit. All other parts of our codebase have been migrated to 64-bit.

The production of Monte Carlo, as well as the production of analysis files and calculating a number of systematic uncertainties relies on NEUGEN. Hence, the experiment requests an extension of the MINOS SLF5 machine such that we can continue to build parts of our software in 32-bit. We will require this until the final analyses are complete, or until 'someone' can update NEUGEN to 64-bit.

Regards,

Leigh Whitehead - MINOS Analysis Coordinator

**#7 - 06/19/2017 02:30 PM - Arthur Kreymer**

## Notes from MAAM 06/19

Specify expected net duration of the exemption  
Probably about 18 months, through CY 18

Specify whether Minerva is also affected  
Probably so, verify with their Offline folk

Clarify that 32 bit means SLF5, as these are coupled at Fermilab,  
and that this really is a 32 bit issue  
There is no 32 bit SLF6 support at Fermilab.

## Notes from a discussion by kreymer with Ed Simmonds 06/19

SSI will be providing support for containers like Docker and Singularity  
If we can find a 32 bit working container, they can likely install it on SLF6.

We should look into a tool called MOCK, which is lighter than a container,  
and may provide a 32 bit working environment.

### #8 - 06/23/2017 01:51 AM - Leigh Whitehead

Concerning those last two points - do you think that affects what we should be asking for? Should we be asking for a more appropriate solution like those, or should that be something we say we are looking into in parallel, and once we have something up and running, we will request the SLF5 machine be disabled?

### #9 - 06/26/2017 08:31 AM - Leigh Whitehead

Also, Art, do you know who the people to contact from Minerva are?

### #10 - 07/19/2017 01:08 PM - Arthur Kreymer

I have submitted RITM0584589 07/19 mock on minos-slf6

### #11 - 08/28/2017 05:09 PM - Arthur Kreymer

- % Done changed from 70 to 80

I submitted  
RITM0599341 08/28 minosgpvm01 SLF5 variation through Dec 2017

### #12 - 09/01/2017 03:21 PM - Arthur Kreymer

- % Done changed from 80 to 90

Got an extension through Dec 30, for testing Nugen.

RITM0599341 08/28 minosgpvm01 SLF5 variation through Dec 2017  
I attended the Sep 1 CSBOARD meeting to support this.

TASK0104349 updated 09/18  
The exemption was indeed put in and is set to expire on Jan 12th;  
obviously this should be revisited at CSBoard in Dec if an extension is needed.

### #13 - 09/17/2020 05:21 PM - Arthur Kreymer

- % Done changed from 90 to 100

- Status changed from Work in progress to Closed

minosgpvm01 was shut down in Oct 2018.  
Marking this issue Closed.