On-Call service@MAX IV



Mandatory On-Call Training for Beamline Staff

Remote seminars 2024:

Jan 23 9:00 - 10:30

https://indico.maxiv.lu.se/event/5253/

Jan 24 10:30 – 12:00

https://indico.maxiv.lu.se/event/5254/

Jan 25 13:00 - 14:30

https://indico.maxiv.lu.se/event/5255/

A catch-up event will be offered later in the spring.

Agenda:

Technical Division (Mirjam):

- The TD On-Call model
- Expectations on beamline staff calling the TD On-Call

HR (Anna-Lena, Ann):

- Working Hours
- Primula



Mandatory On-Call Training for Beamline Staff

Agenda:

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- The TD On-Call model
- Expectations

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- Working Hours
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Off-hours operation support at MAX IV is a shared effort

Why is it needed?

MAX IV user time is a valuable resource

Who is responsible?

- Accelerators: Operators, RF group, ID group
- Beamlines: Local Contacts, Floor Coordinators
- Technical Division: ICT groups, Electricians, Infrastructure (water cooling) team, Automation (PLC) team

How do we do it?

Efficient interventions



TD On-Call Support model

Support during weekends and evenings

17-23 weekdays, 08-20 weekends

ICT: 046 - 222 66 00 from week 5

Electronics

Scientific Data

IT Infra

Software

24/7:

PLC: 046 - 222 69 70

Electricity: 046 - 222 69 40

Infrastructure (cooling water):

046 - 222 69 60

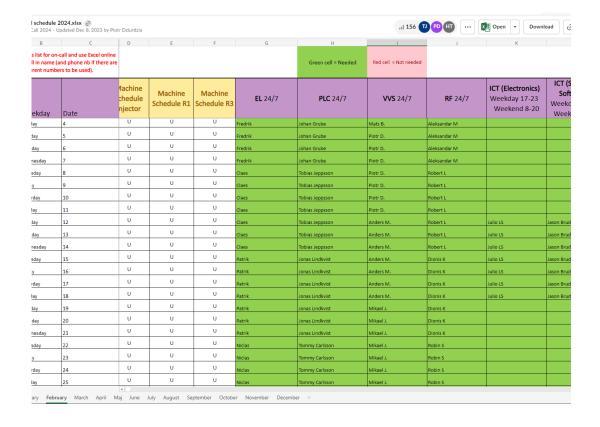




Who may call the TD On-call service?

- Operators
- Floor Coordinators
- Beamline Local Contacts

Users should not call the TD on-call



Availability

- Start-up weeks
- User operation
- See the MAX IV On-Call schedule https://lu.box.com/s/9w40vfemys0qihypazzrb84uff0q557w



What is covered by the TD On-call?

- Best effort support for standard operation.
- Systems that have been proven to work
- ... within a reasonable time frame

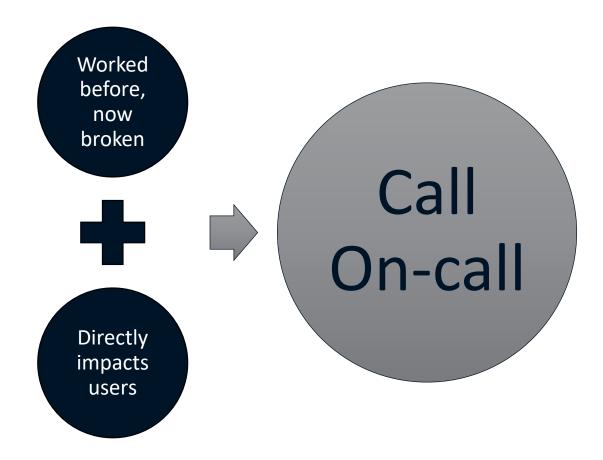
The person who has on-call duty decides what level of intervention is reasonable.

On-call procedure – MAX IV Intranet (lu.se)





When can I call the TD On-call?





Some Examples:

- Acceptable calls (all on previously tested systems)
 - Motor does not move Electronics
 - Tango device stuck, GUI not responding, Scan not running Software
 - Detector problem, Data pipeline stuck Scientific Data
 - PLC alarm persists after PLC reset Automation
 - Replacing a broken power supply Electricians
 - Cannot write file to storage, network problem IT Infra
 - Water cooling not working Infrastructure
- Non-acceptable calls
 - Re-writing a scan macro
 - Installing or configuring new equipment
 - A newly changed and un-tested component is not working

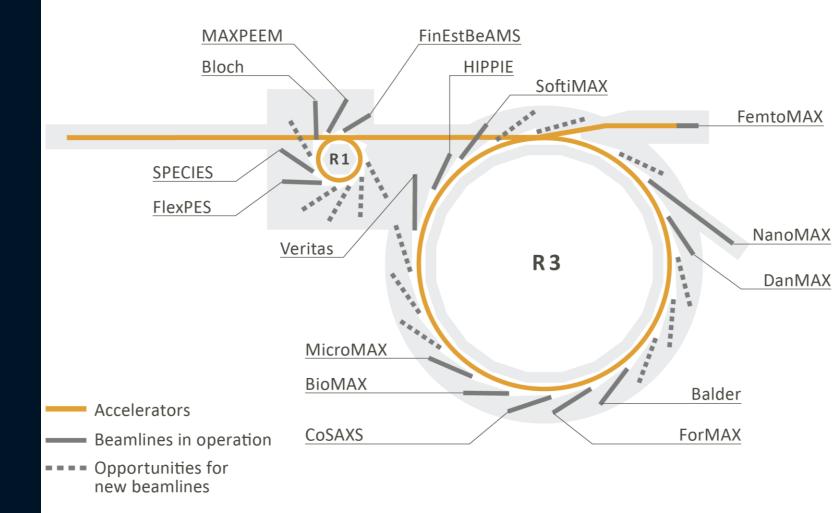
Consider the urgency of the issue. Day time support has more capabilities to assist.



Prioritization:

If several issues are reported in the same timeframe, the priority is as follows:

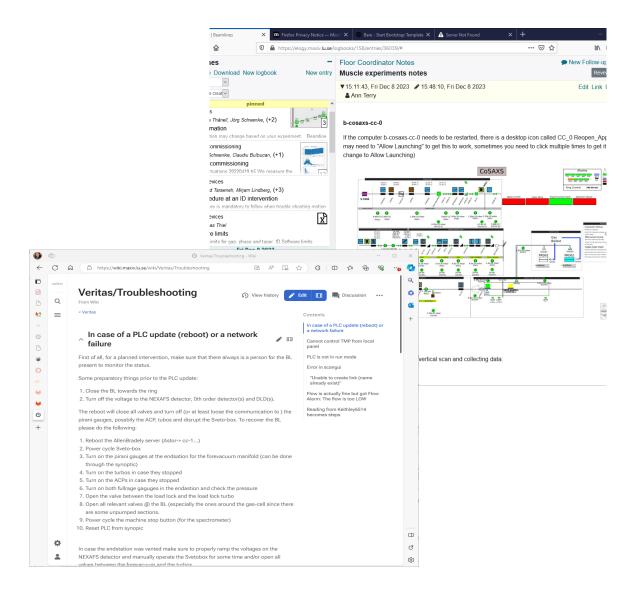
- 1. Accelerator operations
- 2. Beamline user operations
- 3. Beamline preparations for user operation





Checklist before calling

- Search documentation beamline docs, Elogy, Wiki
- Check alarm list
- PLC reset
- Hardware reset
- Restart in Astor
- Kill the process sardana-restart script
- Talk to the floor coordinators





Information to provide:

- Your name and beamline
- Full name of equipment/software
- Description of symptoms and the impact on operations
- Actions taken so far

All calls are logged in as much detail as possible to allow follow up and improvement





Real life example: Closed loop error at Veritas



2023 W9 (2023.02.27 - 2023.03.05)



Description

- Technical details (Tango device name, IcePAP axis, hostname etc.): a_mp1_yaw in ALARM
- · Effect on operations: Cannot continue experiement
- Last seen working: 5mn ago

Investigation

Check the status => Error close loop

Resolution

From spock (MacroExecutor in ScanGUI) I typed "ipap_esync a_mp1_yaw" to recover from the closed error.

```
Collecting data a_mpl_yaw

Collecting data a_mpl_yaw

Data collected
Sending ESYNC to a_mpl_yaw

ESYNC done

Power ON Motor

macro:ipap_esync: motor a_mpl_yaw: axis 16: {"PosAxis": 122713246.0, "PosTgtEnc": 244998.0, "PosMotor": 200248934.0, "EncTgtEnc": 4287495.0, "Position": 270.

: true, "StatusHome": false, "StatusIndexer": "Internal indexer", "StatusInfo": 0, "StatusLim=": false, "StatusLim+": false, "StatusMode": "OPER", "StatusMov

StatusPresent": true, "StatusReady": false, "StatusSettling": false, "StatusStopCode": "Close loop error", "StatusWarning": true}

Door_8316A [2]: a_mpl_yaw.state()

Result | 21: tango._tango.DevState.ON

Door_8316A [3]: | |
```

Avoidance of recurrence: This is the instruction in the Veritas wiki https://wiki.maxiv.lu.se/index.php?title=Verita

Open as it seems recurrent.



Thank you for your attention!

Questions?



KITOS Operations Support



KITOS Support model

Support during working hours:

- 8-17 weekdays
- 2 people scheduled weekly + shift coordinator
- Stationed in the KITOS room 1st floor E-building
- +46703798665



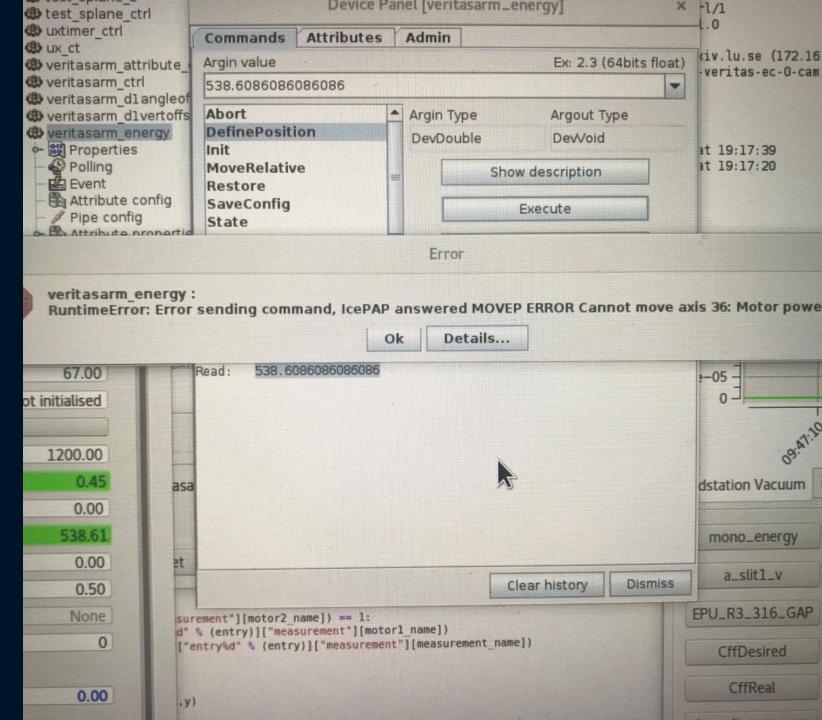


Who should call KITOS?

- All MAX IV staff can call KITOS
- Users should talk to their local contact or to the floor coordinators

Availability

 Full service all weeks that are marked as beamline startup or user operation



When should I call KITOS?

- You can always call KITOS for problems related to the control system or general IT system issues.
- KITOS reliably provides control system support for software and equipment that is in standard operation.
- Software and equipment that is currently undergoing development or improvement activities is not covered by KITOS

	Standard operation in BL, Standard/operation ready software or IT-equipment is used	Improvement and/or development of the BL equipment. Issues with standard underlying software or IT-equipment.	Improvement and/or development of the BL equipment. Issues with software or IT-equipment under development.
BL contact (from ICT), day-time working hours	N	N	Υ
KITOS, day time working hours	Υ	Υ	N
On-call, from 17-23 on working days and from 8-20 on Saturday, Sunday and red-days.	Υ	Y	N



Prioritization:

If several issues are reported in the same timeframe, the priority is as follows:

- **1.**Accelerator operations
- 2.Beamline user operations while users are present
- 3.Beamline preparations for user operation
- **4.**Beamline operations

