



Tuesday – Session 4: (Remote) data access and IC tools

WPSA General Meeting, 6-9 September 2022

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Tuesday – Session 4: (Remote) data access and IC tools



- Update on changes to data access and tools (G. de Tommasi)
- Python tools (M. Iafrati)
- Discussion on tool needs to be prepared for IC
- 2023 REC plans (G. de Tommasi, F. Imbeaux)
- Discussion

FP9 WPSA Enhancements (J. Ayllon)

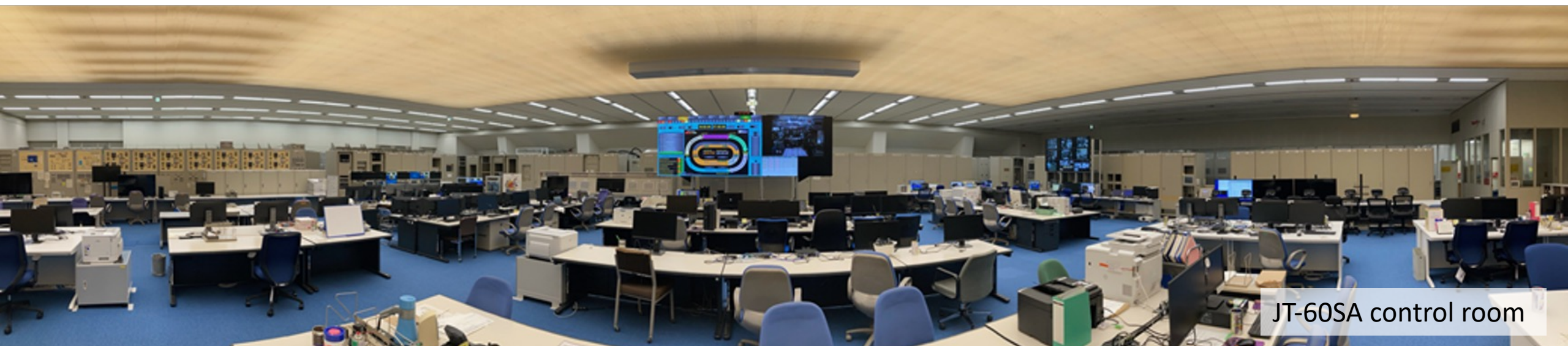
[Remote access architecture](#) (incl. data and computer access in IC)

FP9 WPSA Operations (E. Belonohy)

[Remote Access](#)

[FP8 JT-60SA seminars](#) including how to set up access, HMI and eDAS data viewer

FP9 JT-60SA seminars are available on the [FP9 Integrated Commissioning](#) page including diagnostics available in IC



JT-60SA control room



Ongoing F4E-QST working group (EUROfusion representative: G. de Tommasi)

Tools:

- WebAPI development
- Update of the research site and live video feed from the control room

Outstanding IT needs:

- Access for the Czech team to the raw EDICAM data
- Access to outside the pulse data
- Understanding of the full diagnostics cycle – upload camera tomography analysis as official data

Access to the Naka-server: new accounts for the management, new IC team members and the experiment team.

Name	Role
Gloria Falchetto	WPSA Code Management Area Coordinator
Juan Ayllon	WPSA Enhancement Area Coordinator

Name	Role
Gianluca Pucella	Topical Group Leader for MHD stability and control
Luca Garzotti	Topical Group Leader for Transport and Confinement
Yevgen Kazakov	Topical Group Leader for High Energy Particle Behaviour

Name	IC topic
Alberto Gallo	Plasma Operations
Cedric Reux	Plasma Operations

Name	Affiliation
Frederic Imbeaux	CEA, France
Herve Ancher	CEA, France
Gabriele Manduchi	CNR, Italy
Axel Winter	IPP, Germany
Christoph Fuchs	IPP, Germany

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(Remote) data access and IC tools including current status, python tools, discussion on tools to develop and REC



Update on changes to data access and tools (G. de Tommasi)

- Provide (mini)PCs at Naka for the European team to VPN, then access the Naka-server, Research Management Site and the HMI interface.
- WebAPI access is expected to be available for all current data access holders (IC team).
- Improve logging, preferably in English. Increase number of roles logging control room activities. Improve recording of progress on commissioning forms and procedures.
- -> Organise JT-60SA seminar on reminder how to set up data access + access without Internet Explorer.
- -> Add instructions how to install NoMachine (Tamas)
- -> Use IMAS format (David). This is part of the REC task.

Python tools (M. lafrati)

- Full data cycle using the camera tomography. Get access to raw data, analyse on the Naka server, upload as official discharge data.
- -> Organise JT-60SA seminar on the use of the use of python and available user-written codes.
- Python and matlab are suitable. No need for IDL or other languages.
- Plant monitor on the WebAPI is restricted in time.

Naka server experience (A. Louizguiti)

- No access to licences under VPN.
- IC will use Microsoft Teams (accessible through VPN)
- TF current was only recorded during pulses. Check if this is still the case.

2023 REC plans (G. de Tommasi, F. Imbeaux) – create IMAS interface (for what? E.g. MHD?)

- Recommended: IT support desk & ticketing, procedure for data processing, collective development of tools
- Active testing of EU REC: potentially with vacuum conditioning ← grant deliverable moved too June 2024