

INTERNAL

# AUT Oper Remote FAT / Commissioning

24.5.2022 Kimmo Mehtomaa

# Remote FAT

Factory Acceptance testing (FAT) for the system can be done remotely by utilizing Valmet VPN and Remote desktop connections:

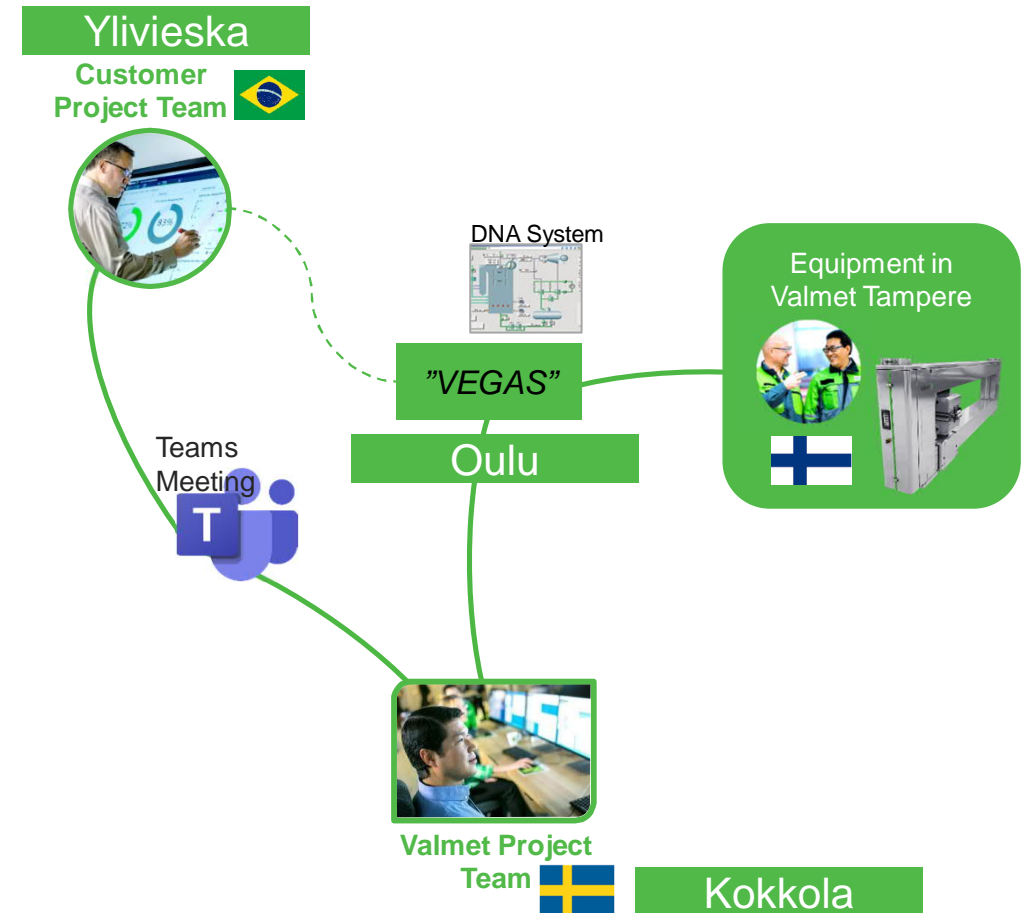
- Connecting to the Valmet DNA system in FAT area
- Without the physical hardware using the Valmet's Virtual environment VEGAS.

Remote FAT enables efficient testing without limiting the physical location of the testing participants.

Using the virtual environment Vegas for FAT testing enables to test also equipment which are physically located somewhere else and connected to Vegas.

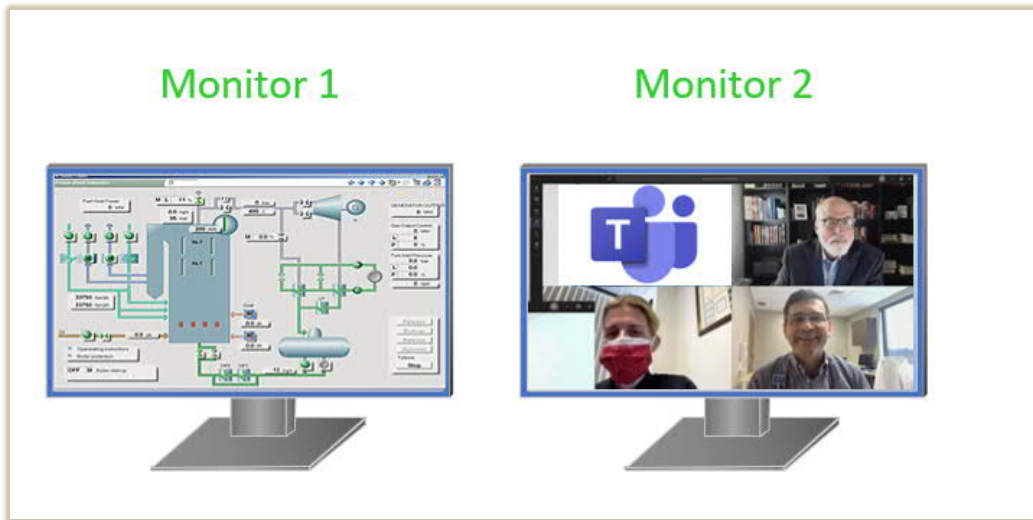
Customer participants can be given access to the project's virtual environment where they can operate and test the software as in normal FAT.

Cooperation and communication can be done via Microsoft Teams sessions.



# Remote FAT

Example setup for the customer during Remote FAT:



Remote desktop connection to Valmet virtual environment where customer can operate and test the system normally with DNA Operate.

MS Teams session for the testing group is open to communicate and demonstrate during the testing.

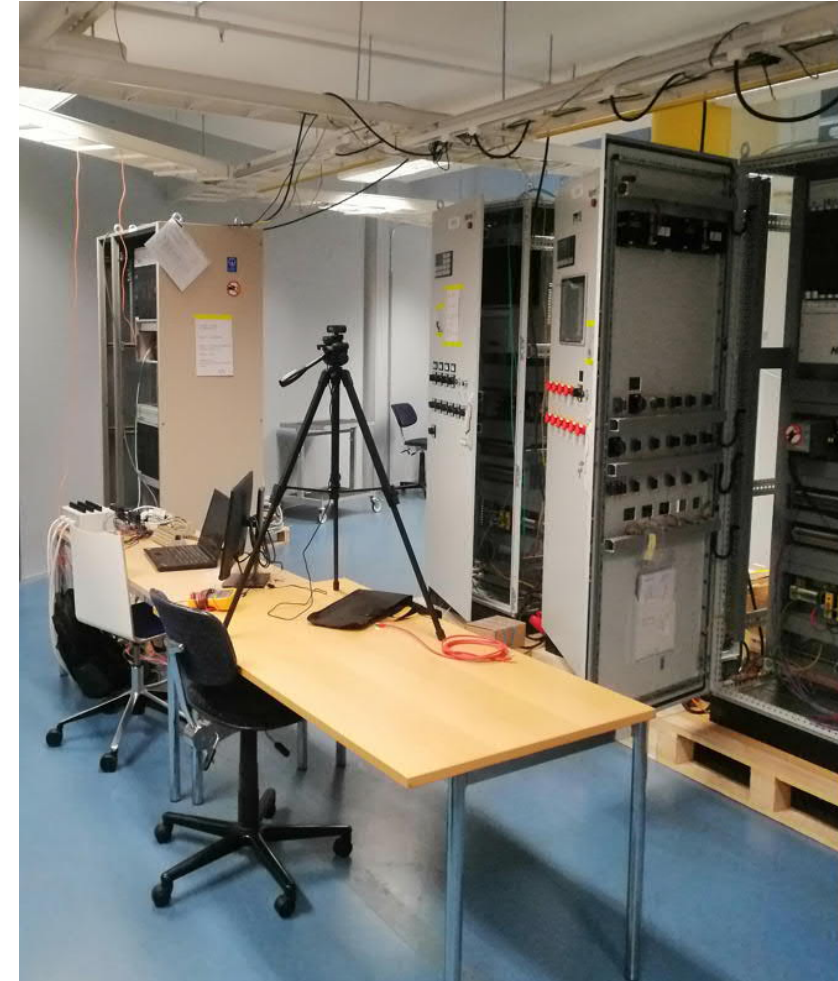
## Benefits of Remote FAT:

- Cost efficient – no travelling & living costs
- More flexibility on testing hours
- Ability to discuss locally with many stakeholders

# Remote FAT

## System & Hardware testing

- The System & Hardware testing can be done efficiently remotely by utilizing realtime video connections to demonstrate the system functionality.
- Communication and will be done via Microsoft Teams, and the customer can visible validate:
  - The system functionalities
  - Display functions
  - Cabinet layouts
  - IO-tests – Hardware wiring

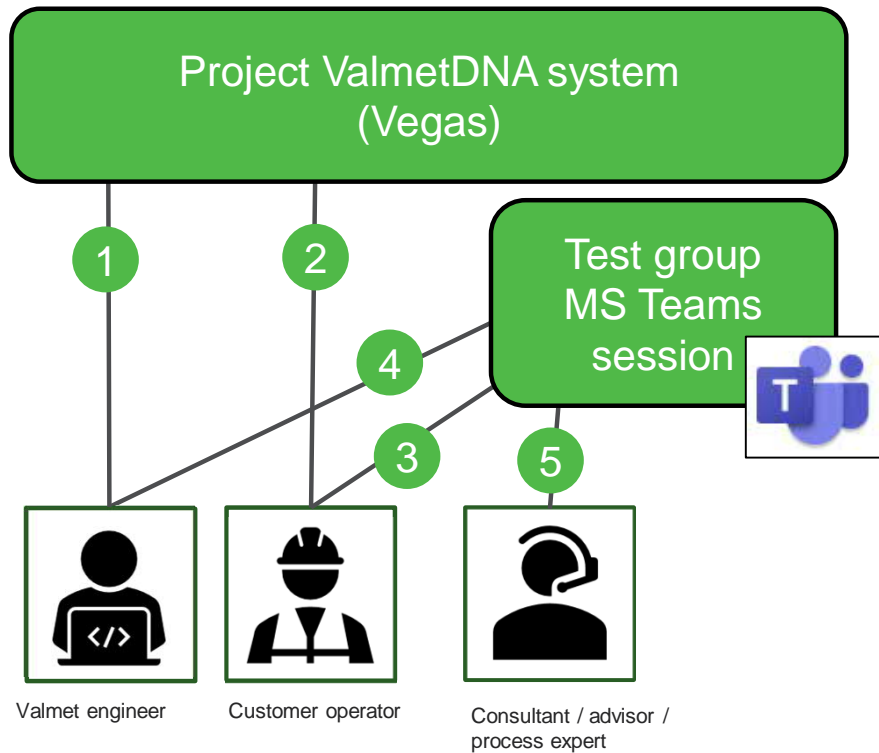


# Common remote FAT setup with testing team

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## Test group roles with ValmetDNA Vegas and MS Teams

- Simultaneous access to Internet and Vegas (or system on FAT area) is needed for Valmet engineer and customer operator



1. Valmet engineer making necessary modification and adjustments to ValmetDNA application
2. Customer operator making application testing by remotely operating ValmetDNA with DNA operate
3. Customer Operator sharing screen to common MS teams session to be able to show operations to other test team members
4. Valmet engineer can see what operator is currently doing and also has possibility to operate DNA via MS teams session when needed
5. Consultant or other party monitoring and commenting the testing without possibility to operate