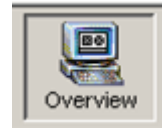


Graphic Interface for use on ACS200 Gen3

Operator level User Guide

Overview screen



Medias ok = Green 

- Full level reached
- low level not reached
- Reserve = White Bgd

Stations Grey = Ok 

- CO 1,2 Two coater bowls
- DE 1 is Developer bowl

TEMP1 

- 1 HMDS module (top)
- 4 prog. Hotplates
- 2 cold plates

TEMP2 

- 2 prog. Hotplates
- 1 cold plate

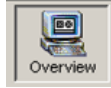
I/O 

Cassette 100m or 150mm (Black = not init)

The screenshot displays the ACS200 operator interface. At the top, the title bar reads "Suss CS-400 4.40d(3) - ACS200Gen3-000036". Below this, a status bar shows the date "2016-01-05 10:58:25", the current recipe "DOF", and a "Pause" button. The interface is divided into several sections:

- Top Right:** Includes "Login" and "Mute" buttons.
- Central Area:** A large grid of icons representing various system components. Most are green, indicating they are "ok". Components include:
 - Resistors: R1 AZ ECI 30, R2 C1 AZ 1512, Resist3 C1, R4 AZ260 C1, C2 AZ 9221, R2 C2 AZ ECI 30, R3 C2 Micro LDR, Resist4 C2, PGMEA, T52 Cyclopentanone, Rsv HMDS 1, AZ400R, T54 AZ726 MIP, In CO1, and Drain CO2.
 - Temperature Control: Temp1 and Temp2 sections with temperature setpoints and durations (e.g., 100.0°C - 0s(0s), 22.0°C - 0s(15s)).
 - Rotational Speed: CO2, Centering, and Sankyo1 sections showing "0 rpm - 0s(0s)".
 - Developer Bowl: DE1 section.
 - I/O Modules: I/O 1_1 and I/O 1_2 sections showing status for various modules.
- Right Side Panel:** A vertical menu with buttons for "Sequence Edit/New", "Sequence Delete", "Sequence Backup", "Sequence Restore", "Sequence View", and "Cleaning parameter".
- Bottom Bar:** A navigation bar with icons for "Overview", "Jobs", "Recipes", "History", "Setup", "Service", "Alarms: 0", and "Help".

Loading wafers from Overview Screen



Ask for Door Access
and unlock
I/O interlock

Request Door ..

Load cassettes correctly
Left = I/O port 1_1 for coating
Right = I/O port 1_2 for develop

Close door

Lock access to Door

Release Door ..

I/O door interlock can be switch on

The screenshot displays the ACS200 operator interface. At the top, the title bar reads 'Suss CS-400 4.40d(3) - ACS200Gen3-000036'. Below it, a status bar shows '2016-01-05 10:59:48', 'DOF', and 'Auto'. A 'Request Door Access' button is highlighted in red. The main interface shows a 3D schematic of the chamber with various process steps. A 'Request Door Access' button is highlighted in red. The bottom bar contains icons for Overview, Jobs, Recipes, History, Setup, Service, Alarms, and Help.

Define Carrier

(from Jobs icon)



Load cassettes correctly

...

Close door

Release access to Door

Single-click on Jobs icon

Press Load Carrier

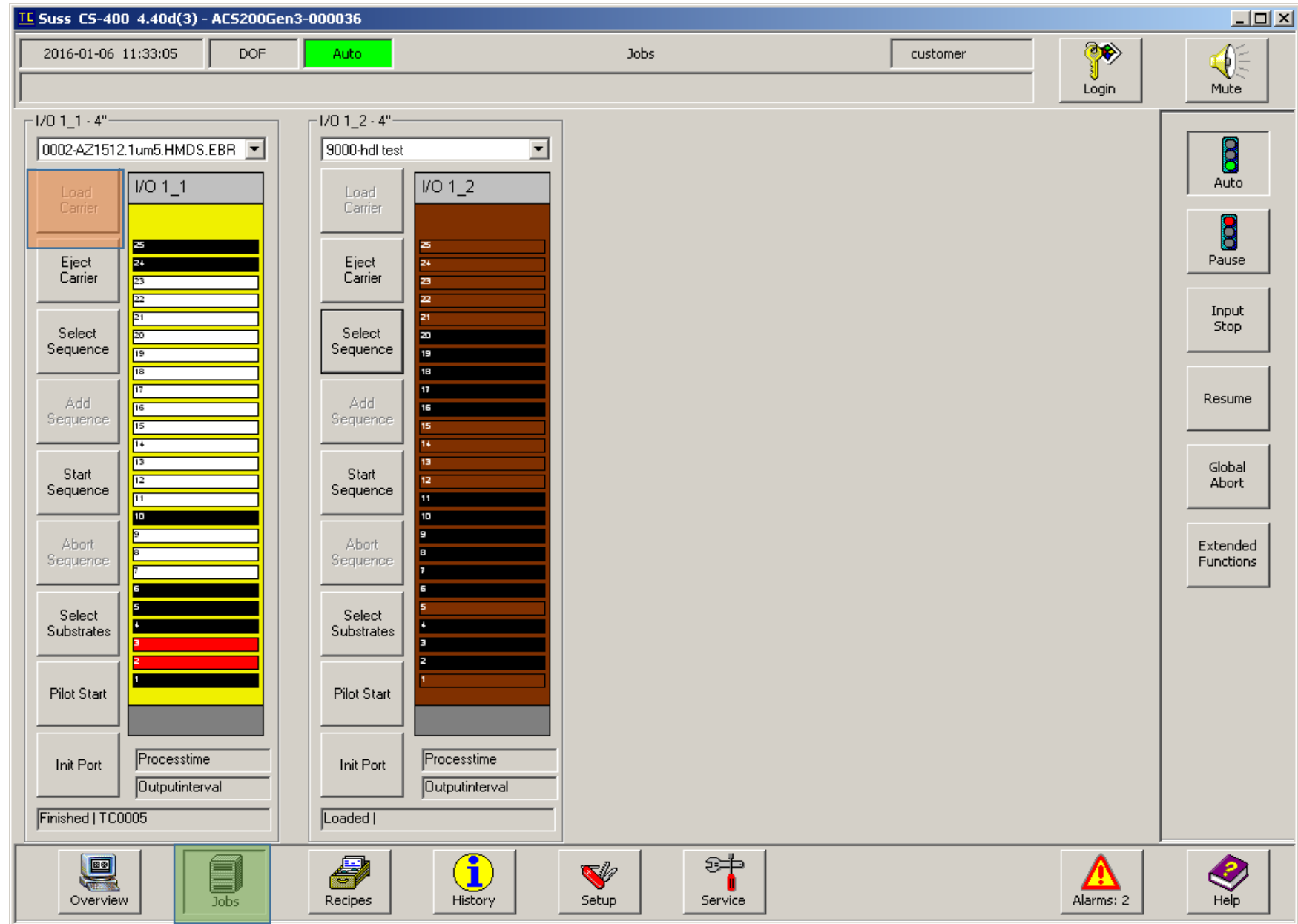
Check for door correctly closed and released if in grey

Wait for ...

Scanner at rear of robot arm is activated

Search for wafers (2 times)

Update slot status



Define Carrier

(from Jobs icon)



Load cassettes correctly

...

Close door

Release access to Door

Single-click on Jobs icon

Press Load Carrier

....

1- Select Sequence

From Top10 (0-999) see /List of sequence

The screenshot displays the ACS200 software interface. The main window shows a control panel with various buttons and a status bar. A 'Jobs' icon is highlighted in the bottom toolbar. A 'Sequence Selection' dialog box is open, showing a list of sequences. The sequence '0002 AZ1512.1um5.HMDS.EBR' is selected. The dialog box has a 'Sel. by Nr.' button and a 'by Name' button. The status bar at the bottom shows 'Alarms: 2' and 'Help'.

No.	Title
0000	Co1- AZ9260 10um
0001	Coater 1- AZ ECI3007
0002	AZ1512.1um5.HMDS.EBR
0003	Coater 1- AZ9260
0004	Coater 2- AZ 9221
0005	Coater 2- AZ3027
0006	CMi-AZ1512onLOR_0um4
0007	Coater 2- LOR for 0um8
0008	Coater 2- AZ40XT
0009	Coater 2- AZ9206 syringe
0011	Dev AZ ECI 750nm
0012	Dev AZ LOR480nm
0013	Develop AZ926 110sec puddle
0014	Develop AZ726 60sec sprav

Define Carrier

(from Jobs icon)

Load cassettes correctly

...

Close door

Release access to Door

Single-click on Jobs icon

Press Load Carrier

....

1- Select Sequence

....

2- Select Substrate (to edit carrier)

one by one if necessary

Ok and Close

The screenshot shows the ACS200 operator interface. The main window title is 'Suss CS-400 4.40d(3) - ACS200Gen3-000036'. The date and time are '2016-01-06 11:33:05'. The user is logged in as 'customer'. The interface includes a 'Jobs' icon in the bottom toolbar, which is highlighted with a green box. A green arrow points from the 'Start Sequence' button in the left sidebar to the 'Substrate Selection' dialog box. The dialog box is titled 'Substrate Selection <I/O 1_1>' and contains a table with columns 'Slot', 'Substrate', and 'Process'. The table lists slots 1-25 with substrates and processes. The 'Process' column shows 'selected' for slots 1-23 and 'selected' for slots 1-10. The 'Substrate' column shows values from 4566 down to 4547. The dialog box has buttons for 'OK', 'Cancel', 'All', 'Help', 'Select', and 'Deselect'. The bottom toolbar includes icons for 'Overview', 'Jobs', 'Recipes', 'History', 'Setup', 'Service', 'Alarms: 2', and 'Help'.

Slot	Substrate	Process
1-25		
1-24		
1-23	4566	selected
1-22	4565	selected
1-21	4564	selected
1-20	4563	selected
1-19	4562	selected
1-18	4561	selected
1-17	4560	selected
1-16	4559	selected
1-15	4558	selected
1-14	4557	selected
1-13	4556	selected
1-12	4555	selected
1-11	4554	selected
1-10		
1-09	4553	selected
1-08	4552	selected
1-07	4551	selected
1-06		
1-05		
1-04	4550	selected
1-03	4549	selected
1-02	4548	selected
1-01	4547	selected

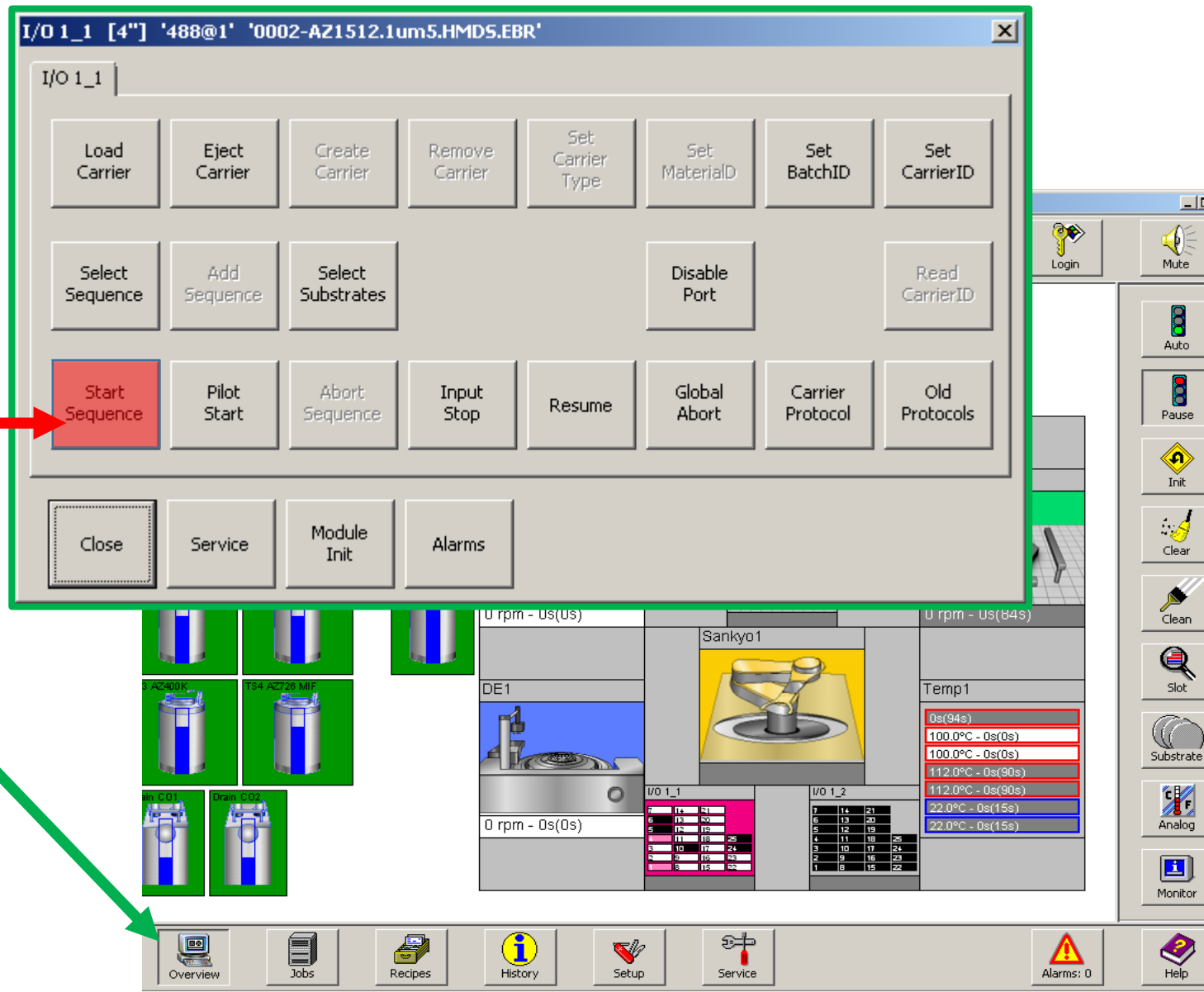
Start Sequence

(from Overview screen)

3- Start Sequence
Close window

Return to Overview icon

Pink colors are displayed on overview until all requested modules are ready (temperature, available handling, ...)



Sequence running

Monitor carrier

Sequence running = green background

Slot Monitor by color (any station)

Black are filled slots (not selected)

Pink are waiting for processing

Green are currently in process Yellow are processed (finished)

Red are (process) damaged

The screenshot shows the ACS200 control interface. The top status bar displays 'Suss CS-400 4.40d(3) - ACS200Gen3-000036', '2016-01-05 11:17:50', 'DOF', 'Auto', 'Overview', 'customer', 'Login', and 'Mute'. The main area displays a grid of station monitors. The left side shows a grid of 16 slots, each with a carrier icon and a percentage. The right side shows a detailed view of the 'Sankyo1' station, which is highlighted in yellow. The 'Sankyo1' station shows a carrier with a yellow background. The 'Temp2' section shows three temperature readings: 100.0°C - 0s(0s), 100.0°C - 0s(0s), and 22.0°C - 0s(0s). The 'Temp1' section shows five temperature readings: 0s(94s), 100.0°C - 0s(0s), 100.0°C - 0s(0s), 112.0°C - 0s(90s), and 112.0°C - 0s(90s). The 'I/O 1_1' and 'I/O 1_2' sections show data tables. The bottom bar contains icons for Overview, Jobs, Recipes, History, Setup, Service, Alarms (0), and Help.

Sequence finished

Batch Ready on I/O

turn to yellow color background

- Request Door Access
- Wait ... (tool check for safety)
- Check I/O door interlock
- Locker icon turn to open
- Take carrier out to unload

Note: A second process flow can be started in parallel from second cassette

TC Suss CS-400 4.40d(3) - ACS200Gen3-000036

2016-01-05 11:31:47 DOF Auto Overview customer

Request Door Access Doors Not Accessible

Temp2

- 100.0°C - 0s(0s)
- 100.0°C - 0s(0s)
- 22.0°C - 0s(0s)

CO2 Centering CO1

0 rpm - 0s(0s) 0 rpm - 0s(84s)

Sankyo1

DE1 Temp1

- 0s(94s)
- 100.0°C - 0s(0s)
- 100.0°C - 0s(0s)
- 112.0°C - 0s(90s)
- 112.0°C - 0s(90s)
- 22.0°C - 0s(15s)
- 22.0°C - 0s(15s)

I/O 1_1 I/O 1_2

	14	51
G	13	50
S	12	49
A	11	48
R	10	47
Q	9	46
T	8	45

	14	21
7	13	20
6	12	19
5	11	18
4	10	17
3	9	16
2	8	15

Overview Jobs Recipes History Setup Service Alarms: 2 Help

Alarms

Look at alarms icon (bottom left)



Single-click to open report

Alarm Monitor: All System Alarms 2 active 0 hidden

Controller	Unit	Message
C01/TM1/MC1-2 TC	TempSlot14 Hot CarrierPort I/O 1_1	time before damage exceeded Damaged substrate moved into Carrier

Buttons: Close, Clear, Clear all, Hide, Show all, History, Help

Monitoring panels: Drain C01, Drain C02, I/O 1_1 (0 rpm - 0s(0s)), I/O 1_2, Temperature logs (1100.0°C - 0s(0s), 112.0°C - 0s(90s), 112.0°C - 0s(90s), 22.0°C - 0s(15s), 22.0°C - 0s(15s)), Substrate, Analog, Monitor

Bottom bar: Overview, Jobs, Recipes, History, Setup, Service, Alarms: 2, Help

- Read it and report if unknown
- Update with clear (clear all)
- Close alarm window

Option: View for available RECIPES



1- Press Recipe icon to open graphical editor

Press Sequence View. MMC TC is empty

2- Press load

Sequence Select Window open library

Upper bar preselect are filter for:

0-99 ..100-999

Top10 recipe sequence .. Scartchs

1000-1999 (for STI-EPFL)

Lab declared recipe sequence

2000-2999 (for SB-EPFL)

Lab declared recipe sequence

3000-3999 (for SV-EPFL)

Lab declared recipe sequence

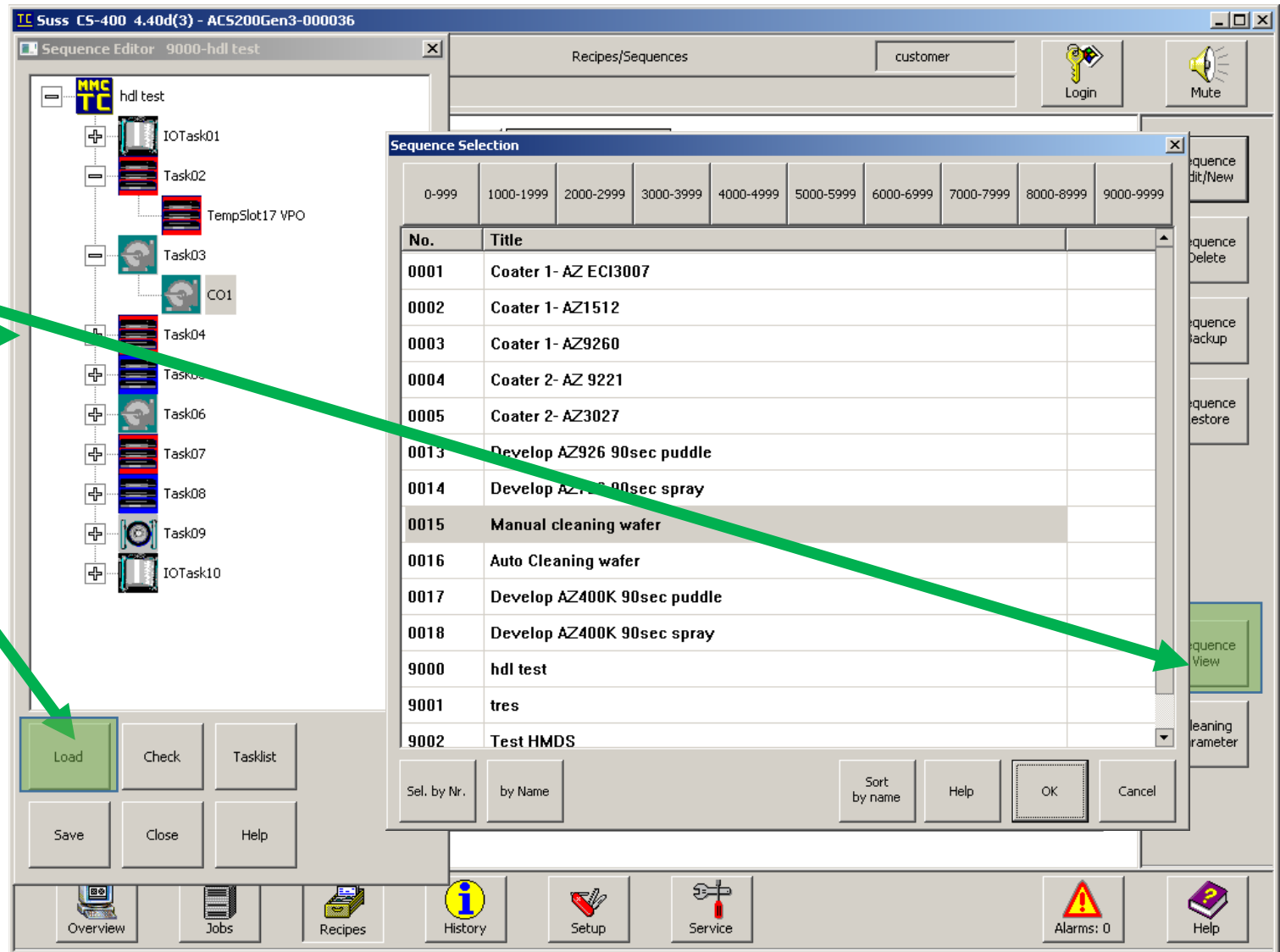
.....

8000-8999 (for External-EPFL)

Lab declared recipe sequence

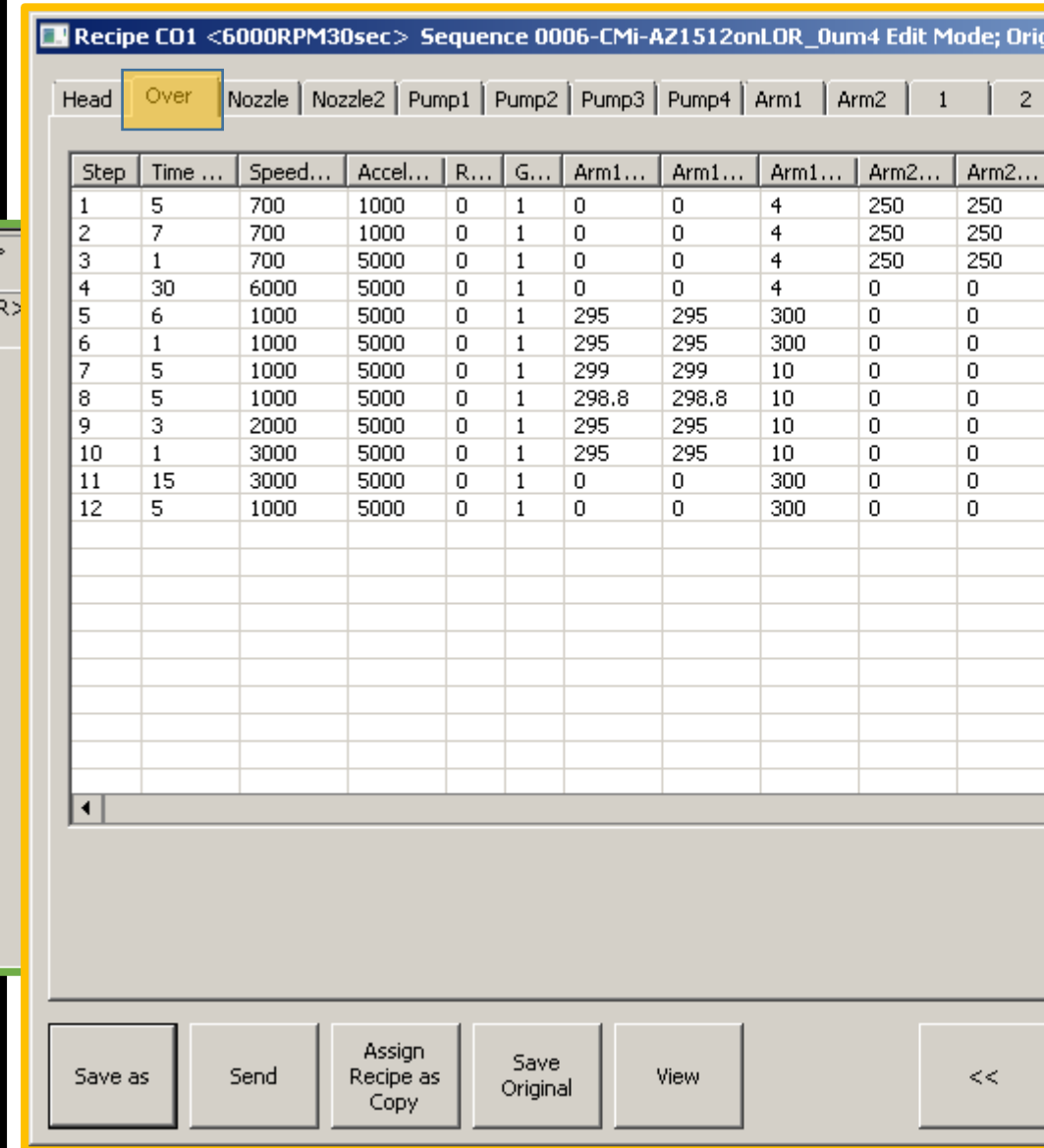
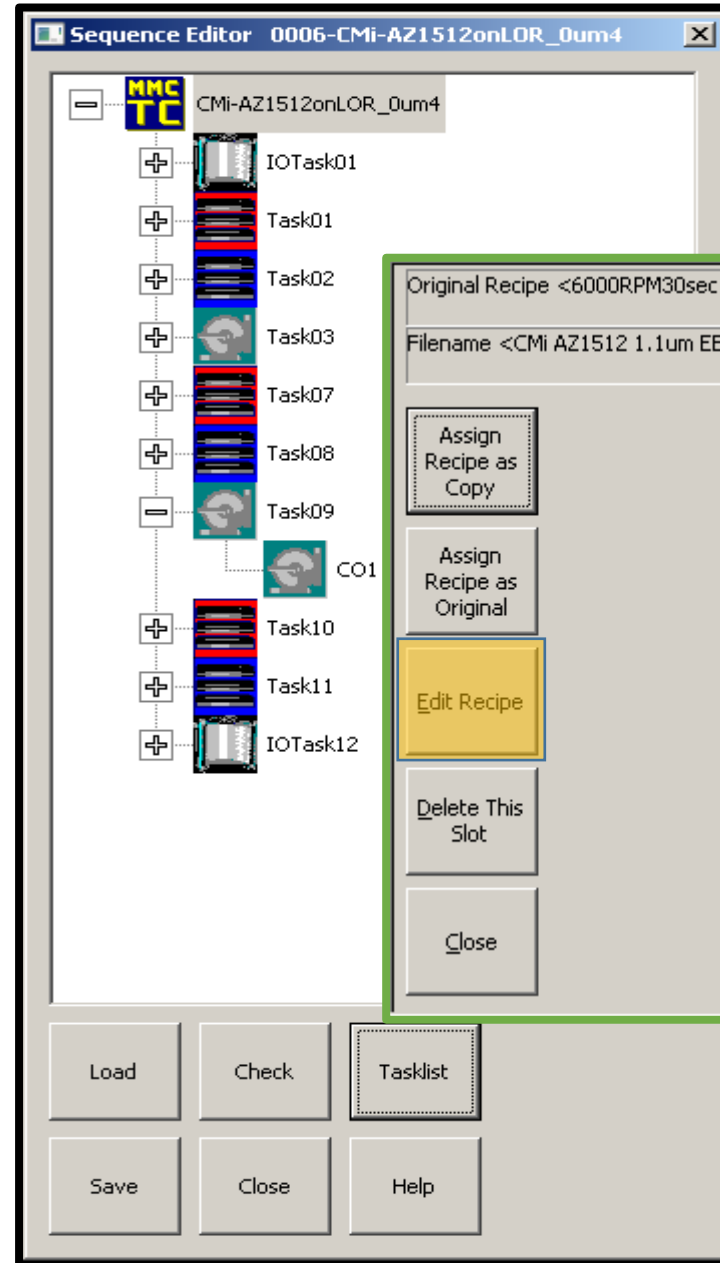
9000-9999 (for CMi Bup & PM)

Lab declared recipe sequence



Sequence and Recipe editor

- Expand Sequence and Tasks to search for specific recipe
- Click to recipe icon
- Press edit and choose « Over » tab to open a step by step parameter summary



Login and Billing

This tool is controlled by the CMi CAE application

- Sign in on PC zone 1 to get access
Billing is reset to 00:00
- Prepare your sequence
- You can sign out as soon as Sequence is started (billing starts)
- Billing system turns to light yellow as soon as process is finished (billing freeze).
A new sequence cannot be started until you sign out
- Don't forget to sign out immediately after unloading