Automation of FIBSEM process and open access control of microscopes

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One of the main challenges of full utilization of FIBSEM in current Nanoprototyping environment is automation of the process, to reduce downtime. Current portfolio of Tescan Essence software modules offer large variety for lamella prep, 3D tomography, automatic imaging, nanopatterning and depositions.

For highly demanding tasks, where the users require absolute freedom of parameters and steps in his workflow, we offer newly released SharkSEM Automation Toolbox SDK. Users get the possibility to program and develop their own patterning strategies based on their research in novel materials and patterning techniques. The biggest advantage are complex 3D depositions where precise patterning control is the key to a successful working prototype.

To fully utilize the microscope we allow the users to access the hardware and software controls to for example develop their own detector and test it in real world conditions.