SEGMIC ENGINEERING

Solution Empowered by Innovations

Solutions for Reliable Utility Automation

Utility Automation with PLC based Control

As a specialist in PLC-based control, Segmic delivers advanced control systems for water, wastewater and distribution networks. Our integrated approach combines redundant controllers, telemetry and SCADA into scalable solutions that keep service running across large, distributed assets.

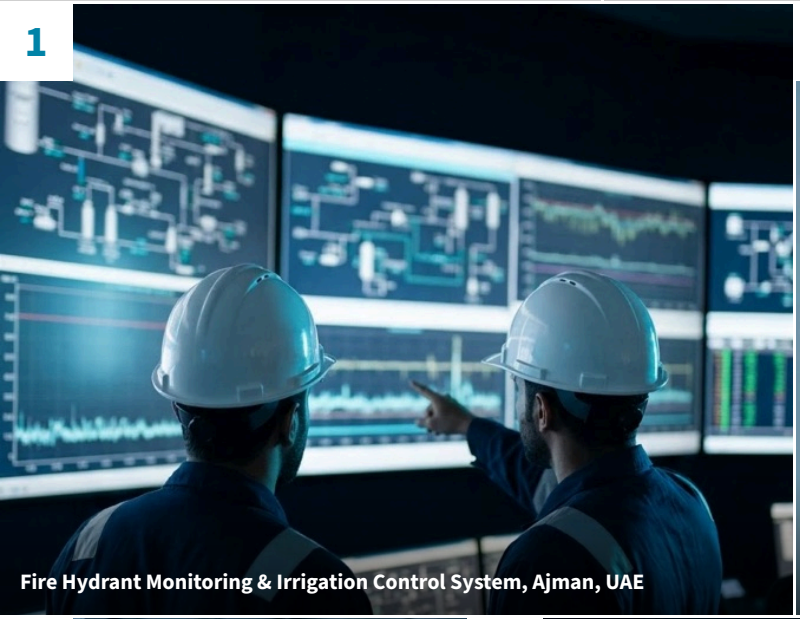
Our solutions are designed for reliability and long-term performance, for new networks and upgrades of existing stations. With expertise in platforms such as Siemens, Schneider Electric, Allen-Bradley and many more, we deliver pump-station automation, leak detection, irrigation networks and grid control tailored to each utility.

From pumping and lift stations, reservoirs and treatment plants to municipal irrigation and fire-hydrant networks, our systems reduce losses and energy use and give operators early warning of failures.

We ensure seamless integration with field instruments and existing telemetry, supporting protocols like Modbus, DNP3, IEC 60870-5-104, PROFINET, OPC UA and more. Additionally, we enable edge and cloud connectivity for central and mobile monitoring.

Application areas for the Segmic control solution

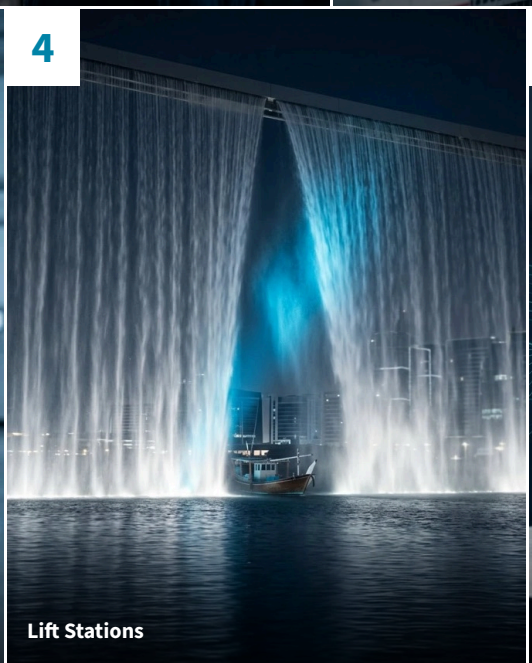
1. Pumping Stations
2. Lift Stations
3. Reservoirs & Tanks
4. Water Treatment
5. Wastewater Treatment
6. Irrigation Networks
7. Fire Hydrant Networks
8. Distribution Networks
9. District Cooling



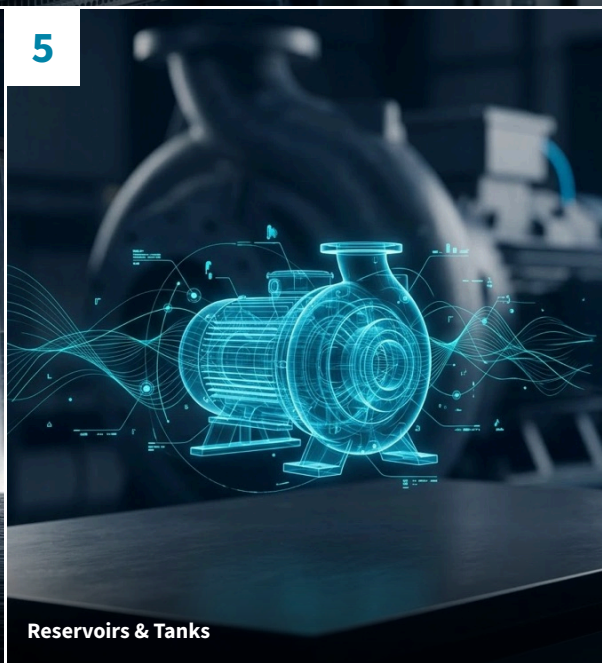
Fire Hydrant Monitoring & Irrigation Control System, Ajman, UAE

Pump Control PLC & RTU Retrofit, Dubai, UAE

Pumping Stations



Lift Stations

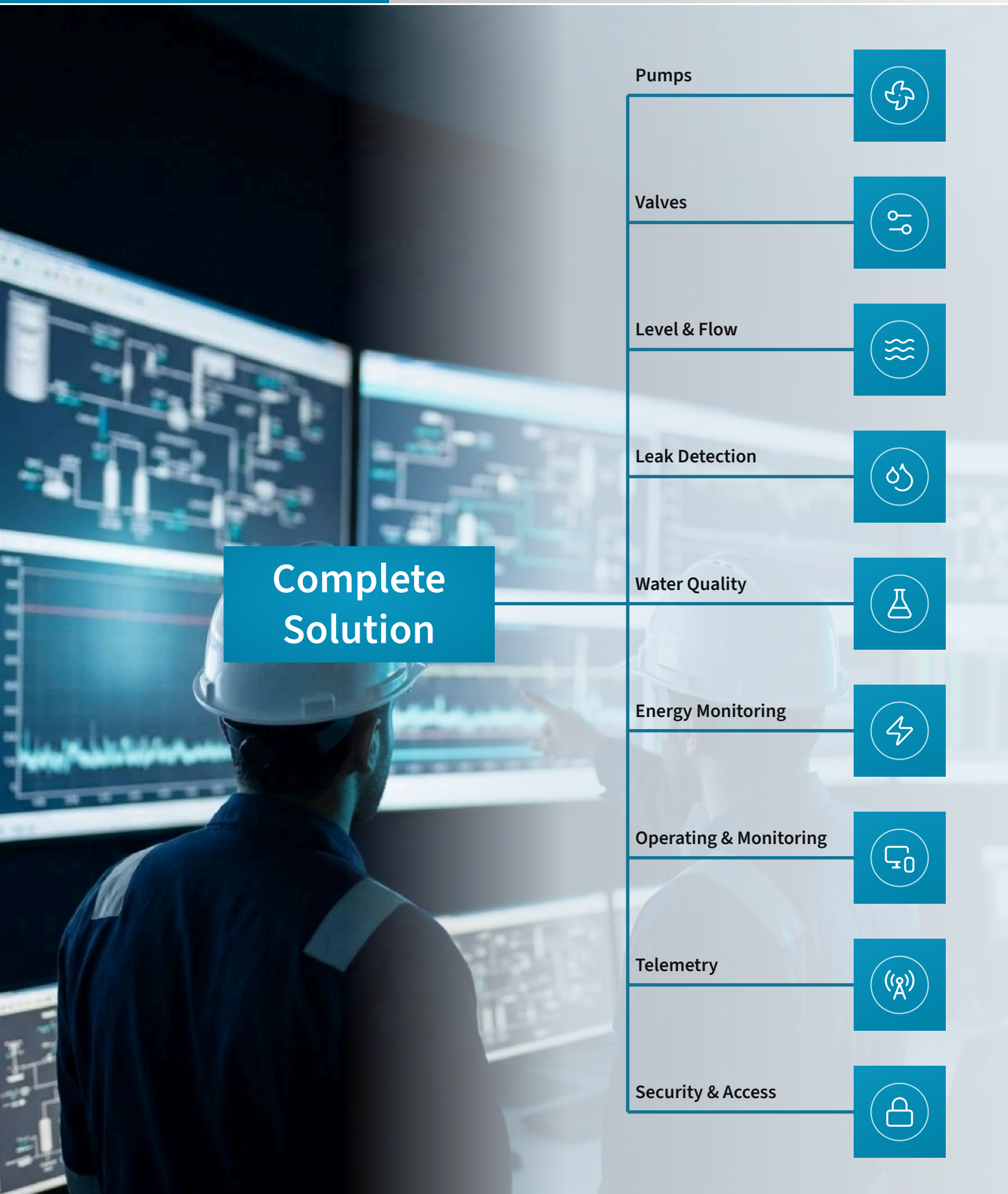


Reservoirs & Tanks

From individual technical systems to a reliable, connected complete solution

All technical systems integrated in one control system:

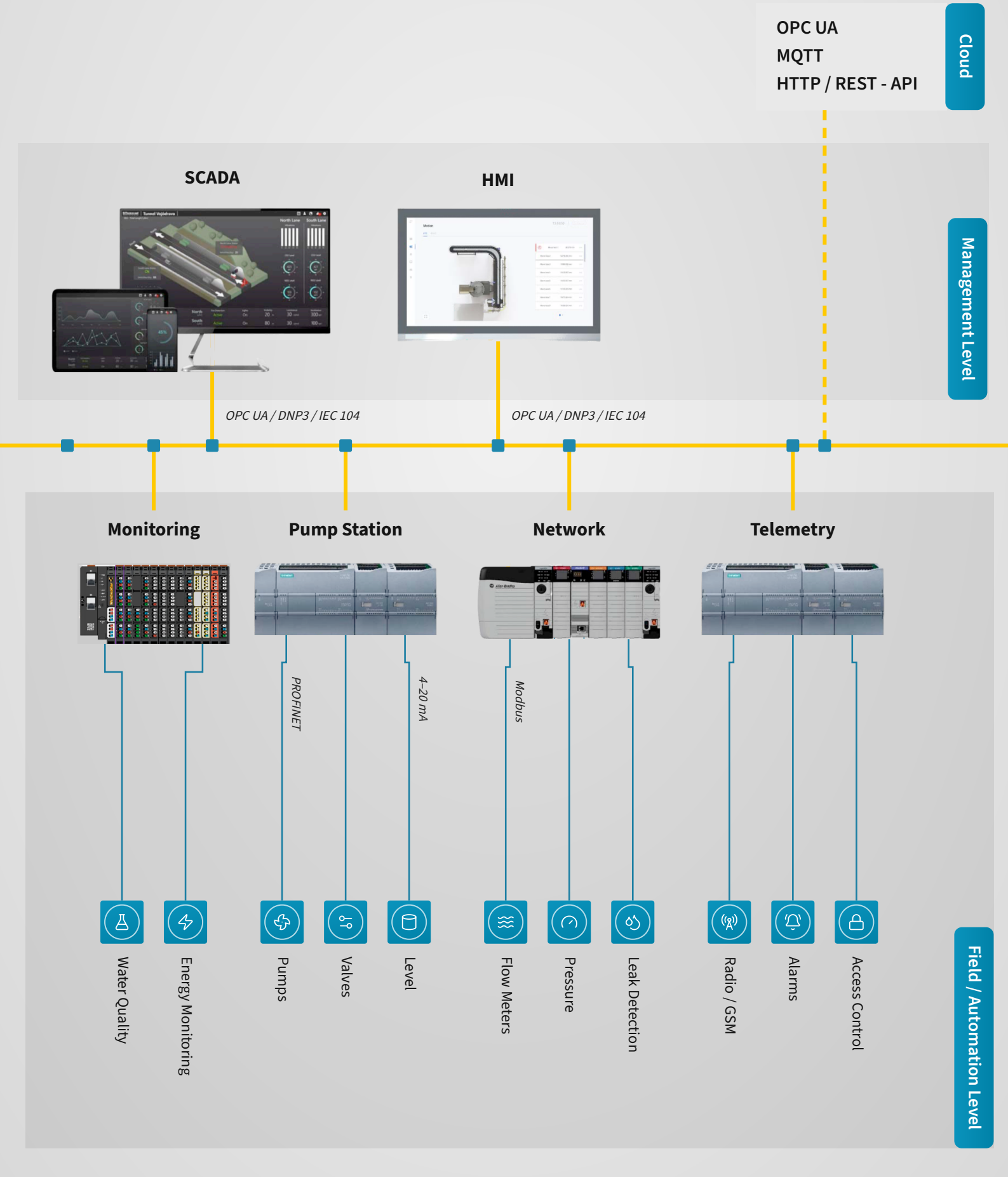
- Pump and valve control
- Level, flow and pressure monitoring
- Leak detection and network balancing
- Water quality monitoring
- Energy optimisation of pumping
- Telemetry, alarms and remote SCADA



All components for smart utility automation

At Segmic Engineering, we automate distributed utility networks in a comprehensive, scalable, and future-ready manner. Station controllers with decentralized I/Os report over telemetry to a central SCADA through standard utility protocols.

This approach keeps each station autonomous and significantly reduces site visits and cabling — while giving operators one live view of the whole network.



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