

AMQP

AMQP (Advanced Message Queuing Protocol) is a robust, enterprise-grade messaging protocol supporting reliable delivery, routing, and queuing.

Purpose in AOFS

- Farm Controller ↔ HQ communication
- Federated multi-farm data aggregation
- Research and GAKD synchronization
- Guaranteed message delivery scenarios

Layer Mapping

- Primarily Farm Controller → HQ / Federated Layer
- Not typically used at direct sensor level

Strengths

- Reliable message delivery
- Advanced routing and queuing
- Suitable for large-scale deployments
- Strong transactional guarantees

AOFS Compliance Notes

- AMQP is optional and never required for core irrigation safety
- Field Controllers must remain fully operational if AMQP connectivity fails
- HQ-level instructions are advisory only
- All supervisory messages must be auditable

From:

<http://wiki.irrigation.afriticgroup.com/> - **Afritic Open Farming Standard**

Permanent link:

<http://wiki.irrigation.afriticgroup.com/doku.php?id=protocols:amqp:start>

Last update: **2026/02/23 01:07**

