



Work Plan

JTWG System Aspects

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1 Scope of Work

Identify the unique system requirements of Ethernet networks from the aspect of industrial automation applications and to establish techniques for the management of system aspects such as:

- Common system configuration as well as system diagnosis procedures based on existing standards as e.g. RFCs, especially for IAONA partner technologies,
- User guidelines regarding system aspects of Industrial Ethernet systems, and
- Input to normative committees.

2 Objectives

The following objectives are approved by the Technical Steering Committee (TSC). Additional and/or alternate work items may be selected based on the relevant interests of the JTWG participants.

Short-term:

- Finalize the mechanism for IPv4 Address Conflict Detection.

Medium-term:

- Common behavior for BOOTP / DHCP client operation for industrial Ethernet devices.
- Recommendations for IP address assignment and name resolution in significant application scenarios.
- Finalize IAONA SNMP MIB.

Long-term:

- Develop strategy for faulty device replacement, including IP address assignment and application configuration.
- Analysis and recommendations for prioritization mechanisms.
- Development of user guideline document(s).

3 Expected user benefits

- Consistent behavior of industrial Ethernet devices for important system aspects, independent of application protocol.
- Support during commissioning and installation by the use of common tools, e.g DHCP servers, SNMP tools.
- Reduce training efforts