

PICMG/ DMTF Work Register
Version 1.1
Date Initiated: 04/26/2023

The DMTF Work Register is created between the DMTF and an Alliance Partner to formally define the objectives, scope, benefits, and deliverables of the alliance partnership. The register helps both organizations coordinate efforts to achieve the stated goals and objectives.

Alliance Organizations

[PCI Industrial Computer Manufacturer Group](#) (PICMG) and the [Distributed Management Task Force](#) (DMTF)

PICMG

PICMG is a nonprofit consortium of companies and organizations that collaboratively develop open standards for high performance telecommunications, military, industrial, and general purpose embedded computing applications.

There are over 100 member companies that specialize in a wide range of technical disciplines, including mechanical and thermal design, single board computer design, very high speed signaling design and analysis, networking expertise, backplane and packaging design, power management, High Availability software, and comprehensive system management.

Equipment built to PICMG standards is used worldwide and anyone can build or use equipment without restriction (although certain technologies used for some military applications may be subject to U.S. export restrictions governed by ITAR rules).

Key standards families developed by PICMG include CompactPCI®, AdvancedTCA®, MicroTCA®, AdvancedMC®, CompactPCI® Serial, COM Express®, SHB Express®, and HPM (Hardware Platform Management).

In its over 20 years of operation, PICMG has published over 50 specifications developed by participants from hundreds of companies. Work across a wide range of markets, applications, and technologies continues as the boundaries of datacom, telecom, mil/aero, industrial, man machine interface applications, and deeply embedded computing blur.

Distributed Management Task Force

The Distributed Management Task Force is an industry standards organization working to simplify the manageability of network accessible technologies through open and collaborative efforts by leading technology companies. DMTF creates and drives the international adoption of interoperable management standards, supporting implementations that enable the management of diverse traditional and emerging technologies including cloud, virtualization, network and infrastructure.

Alliance Benefits

PICMG will benefit from:

- Referencing established DMTF Redfish technologies
- Access to Redfish manageability expertise within the DMTF and its membership.

DMTF will benefit from:

- Establishing the Redfish manageability standard in the Industrial IoT domain

This alliance will provide the following benefits:

- Cross-promote DMTF and PICMG work products and events to their member companies.
- Activities to coordinate and align the DMTF and PICMG work products.

Activities

The following activities are expected to occur during the duration of this work register.

The PICMG

- Specifies Redfish resources needed to support IoT devices for industrial automation (IIoT).
- Creates and maintains Redfish extensions to support IIoT system deployments.

The DMTF:

- Provides expertise on Redfish to assist PICMG on the creation of example Redfish resources (AKA mock-ups) and schema.
- Provides a common repository for Redfish models, schema, registries for the industry

Limitations

PICMG will not produce delegated standards that conflict or diverge from existing or proposed DMTF standards where possible.

Milestones / Dates

This section is to list specific milestones that will be accomplished by the alliance partnership.

Milestone/Deliverables	Timeframe
DMTF and PICMG approves of Work Register v1.0 - done	Apr 2018

DMTF announces PICMG as a new alliance partner and publish work register - done	Apr 2018
PICMG starts Tech Advisory Board - done	Mar 2018
PICMG forms a working group (with charter and SOW) - done	Jun 2018
PICMG releases Redfish model and schema for IIoT - done	Dec 2018
PICMG contributes Redfish extensions for Industrial IoT	Feb 2023
DMTF posts ‘Response to PICMG Proposal’ as WIP	Apr 2023
DMTF announces the update work register with PICMG	May 2023
DMTF releases the Redfish Data Model Specification with model to support Industrial IoT	Q4 2023

Access

The DMTF and PICMG may want to provide documentation and collateral to each other. This information can be exchanged publicly, or not.

For information which can be accessed publicly

- DMTF will make the information available by posting as “Work-in-Progress” , “Informational”, or “Standard” (dmtf.org/redfish)
- PICMG will make the information available by posting to the PICMG web site. For non-public work in progress, a web site will be made available to members of the technical subcommittee associated with the work.

For any information that involves intellectual property (that is information contributed to each other’s projects):

- PICMG can submit to the DMTF Technology Submission Portal (dmtf.org/standards/feedback)
- PICMG and DMTF can host a meeting to exchange the information
- If DMTF members (who are not also PICMG members) wishing to contribute to PICMG, they may engage with the technical advisory committee (pre-standards work) with approval of the CTO of PICMG. Once specification work begins, subject matter experts from DMTF will be allowed to participate as guests in a limited fashion so long as they sign and abide by the PICMG intellectual property rights policy. PICMG requests that any DMTF members who wish to provide consistent and ongoing contribution to the PICMG work Industrial IOT work products please join PICMG.

Documentation

The DMTF will make the following specifications available to the PICMG. These will generally be available on the public DMTF Redfish site.

- Redfish Specification
- Redfish model schema and mockups
- Redfish whitepapers

The PICMG will make the following documents available to the DMTF.

- IIoT Extensions to Redfish

Work Register Review Date

The next review date is expected to be April 2025

Resources Identified / Points of Contact:

Below are the members of each organization that will act as points of contact between the two organizations.

PICMG:

- Doug Sandy, CTO, doug@picmg.org

DMTF:

- DMTF VP of Alliances (vp-alliances@dmtof.org)

Corresponding PICMG Document

There are no corresponding documents created by PICMG. This document was approved by the PICMG Board on August 11, 2023.

Approval by the DMTF Board of Directors

Approved by the DMTF Board of Directors; Board Resolution **2023-09-06**, on September 21, 2023