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Redfish Message Registry Guide

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This document's normative language is English. Translation into other languages is permitted.

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1 Overview

The Redfish standard comprises a set of specifications maintained by the Redfish Forum, a working group within DMTF. The standard defines a protocol that uses RESTful interfaces to provide access to data and operations associated with the management of systems and networks. One of the strengths of the Redfish protocol is that it works with a wide range of servers: from stand-alone servers to rack-mount and bladed environments to large-scale data centers and cloud environments.

The Redfish standard addresses several key issues for infrastructures that require scalability. Large infrastructures often consist of many simple servers of different makes and types. This hyper-scale usage model requires a new approach to systems management. The Redfish protocol addresses these needs by providing a standard protocol based on out-of-band systems management.

With these goals in mind, the Redfish protocol was designed as an open-industry standard to meet scalability requirements in multi-vendor deployments. It easily integrates with commonly used tools, using RESTful interfaces to perform operations and using JSON for data payloads.

1.1 Who should read this document?

Redfish responses can contain messages to help guide clients when next steps or corrective actions need to be taken. This document is useful for client developers who want to understand how to interpret standard Redfish messages. This document is also useful for service developers who want to understand how standard Redfish messages are to be used in their service.

1.2 How can I provide feedback?

Feedback on all Redfish specifications and documents is encouraged. Feedback can be directed to DMTF and the Redfish Forum by the following means:

- **Redfish User Forum:** <https://redfishforum.com> - User forum monitored by DMTF Redfish Forum personnel to answer questions about any Redfish-related topics.
- **DMTF Feedback Portal:** <https://www.dmtf.org/standards/feedback> - Formal submission portal for enhancements or proposals to DMTF and the Redfish Forum.

1.3 Where can I find more information?

The following web sites provide more information about the Redfish standard:

- [Redfish Developer Hub](#)

Resources for developers who use Redfish to build applications. Contains an interactive schema explorer, hosted schema, and other links.

- [Redfish Specification Forum](#)

DMTF Redfish-monitored user forum. Answers questions about Redfish-related topics.

- [DMTF GitHub repositories](#)

Open source tools and libraries for working with Redfish.

- [Redfish standards](#)

Schemas, specifications, mockups, white papers, FAQ, educational material, and more.

- [DMTF Redfish Forum](#)

Working group that maintains the Redfish standard. Site lists member companies, future work and schedules, charter, and information about joining.

1.4 Related documents

The following documents are part of the Redfish development effort. They can be accessed or downloaded from DMTF's Redfish Standards web site: <https://www.dmtf.org/standards/redfish>

- [DSP0218](#) - Platform Level Data Model (PLDM) for Redfish Device Enablement Specification - Binary-encoded JSON (BEJ) and dictionary-based mapping of Redfish schemas and properties into PLDM messages.
- [DSP0266](#) - Redfish Specification - Main Redfish Specification.
- [DSP0268](#) - Redfish Data Model Specification - Normative descriptions and additional text for every schema defined in DSP8010 and example payloads for every resource.
- [DSP0270](#) - Redfish Host Interface Specification - "In-band" or "OS-based" Redfish host interface.
- [DSP0272](#) - Redfish Interoperability Profiles Specification - Structure and JSON document that is used to define and publish an interoperability profile that checks an implementation's conformance to a defined minimum set of functionality.
- [DSP2043](#) - Redfish Mockups Bundle - Set of mockups that can be used as sample output from `GET` responses from a Redfish service. Informative in nature, it was used to develop the schema. A person can set up an NGINX or similar server and configure it to output JSON format and then use this directory for demonstration purposes.
- [DSP2044](#) - Redfish White Paper - Non-normative document helping those new to Redfish understand how to interact with the Redfish service and understand common functions and tasks.
- [DSP2046](#) - Redfish Resource and Schema Guide - Informative documentation regarding common Redfish resource properties and a listing of properties that can be found in each of the Redfish resources.
- [DSP2053](#) - Redfish Property Guide - Informative documentation providing an index to individual property

definitions across all Redfish schema.

- [DSP2065](#) - Redfish Message Registry Guide - Informative documentation providing details regarding the messages defined in Redfish standard message registries.
- [DSP8010](#) - Redfish Schema - Redfish schema definitions. These files are normative in nature and are normatively referenced by the *Redfish Specification*. The three schema formats are CSDL (OData Common Schema Definition Language format, which is in XML), JSON Schema, and OpenAPI schema. These schema definitions should be functionally equivalent, thus specifying the schema in three different languages.
- [DSP8011](#) - Redfish Standard Registries - Redfish registry definitions. This bundle of Redfish registries includes message registries used for Redfish-defined messages including events and privilege maps.
- [DSP8013](#) - Redfish Interoperability Profiles Bundle - Bundle of published Redfish interoperability profile documents and supporting schema and sample documents used for creating profiles.

2 Reference guide

The following sections contain details for each message registry and their messages in the Redfish Standard Registries (DSP8011).

2.1 AccountSecurity 1.0.0

This registry defines the account security messages for Redfish. These messages are primarily intended for audit logs. In particular, the various login failure messages in this registry shall not be returned in payload responses; instead, login failure/success messages in the base registry shall be returned.

Message	Severity	Description
AccountCreated	OK	Indicates that the account was successfully created.
AccountDisabled	Warning	Indicates that an account has been disabled. This message shall not be returned in payload responses.
AccountEnabled	OK	Indicates that an account has been enabled. This message shall not be returned in payload responses.
AccountExpired	Warning	Indicates that supplied account credentials were not validated because the account has expired. This message shall not be returned in payload responses.
AccountLocked	Critical	Indicates that an account has been locked due to failed authorization attempts. This message shall not be returned in payload responses.
AccountModified	OK	Indicates that the account was successfully modified.
AccountNotModified	Warning	Indicates that the modification requested for the account was not successful.
AccountRemoved	OK	Indicates that the account was successfully removed.
AccountUnlocked	OK	Indicates that an account has been unlocked. This message shall not be returned in payload responses.
CertificateAdded	Warning	Indicates that a TLS user/account certificate has been installed.
CertificateRemoved	Warning	Indicates that a TLS user/account certificate has been uninstalled.
CertificateReplaced	Warning	Indicates that an existing TLS user/account certificate has been replaced within the service.
IPRestrictionsNotMet	Warning	Indicates that supplied account name and password were not validated because the source IP was restricted. This message shall not be returned in payload responses.

Message	Severity	Description
InsufficientPrivilege	Critical	Indicates that the credentials associated with the established session do not have sufficient privileges for the requested operation.
InvalidCredentials	Warning	Indicates that supplied account name and password could not be validated. This message shall not be returned in payload responses.
ManagerAccountPrivilegeAdded	Warning	Indicates that a privilege has been added to an account.
ManagerAccountPrivilegeRemoved	Warning	Indicates that a privilege has been removed from an account.
ManagerAccountRoleAdded	Warning	Indicates that a role has been added to an account.
ManagerAccountRoleRemoved	Warning	Indicates that a role has been removed from an account.
NoValidSession	Critical	Indicates that the operation failed because a valid session is required in order to access any resources.
PasswordModified	Warning	Indicates that the password associated with an account has been changed. This message shall not be returned in payload responses.
SSHCredentialAdded	Warning	Indicates that an SSH user/account certificate or key thumbprint has been installed.
SSHCredentialRemoved	Warning	Indicates that an SSH user/account certificate or key thumbprint has been uninstalled.
SSHCredentialReplaced	Warning	Indicates that an existing SSH user/account certificate or key thumbprint has been replaced within the service.
SuccessfulLogin	OK	Indicates that the service successfully authorized the supplied credentials. This message shall not be returned in payload responses.
TimeRestrictionsNotMet	Warning	Indicates that supplied account name and password were not validated because the login attempt was made during a restricted time period. This message shall not be returned in payload responses.

2.1.1 AccountCreated

Indicates that the account was successfully created.

- This message shall indicate that the account was successfully created.

Version Added: 1.19.0

Severity: OK

Resolution: None.

Message and Arguments: "Account <Arg1> was successfully created."

1. *string*: The account that has been created.
 - This argument shall contain the account that has been created.

2.1.2 AccountDisabled

Indicates that an account has been disabled. This message shall not be returned in payload responses.

- This message shall indicate that an account has been disabled. This message shall not be returned in payload responses.

Version Added: 1.0.0

Severity: Warning

Resolution: None.

Message and Arguments: "Account <Arg1> has been disabled."

1. *string*: The account that has been disabled.
 - This argument shall contain the account that has been disabled.

2.1.3 AccountEnabled

Indicates that an account has been enabled. This message shall not be returned in payload responses.

- This message shall indicate that an account has been enabled. This message shall not be returned in payload responses.

Version Added: 1.0.0

Severity: OK

Resolution: None.

Message and Arguments: "Account <Arg1> has been enabled."

1. *string*: The account that has been enabled.
 - This argument shall contain the account that has been enabled.

2.1.4 AccountExpired

Indicates that supplied account credentials were not validated because the account has expired. This message shall not be returned in payload responses.

- This message shall indicate that a login attempt failed because the account has expired. This message shall not be returned in payload responses.

Version Added: 1.0.0

Severity: Warning

Resolution: None.

Message and Arguments: "Login from IP address <Arg1>, interface <Arg2> failed."

1. *string*: The source IP address from which a connection attempt was made.
 - This argument shall contain the source IP address from which a connection attempt was made.
2. *string*: The interface over which an attempt was made.
 - This argument shall contain the interface over which an attempt was made.

2.1.5 AccountLocked

Indicates that an account has been locked due to failed authorization attempts. This message shall not be returned in payload responses.

- This message shall indicate that an account has been locked due to failed authorization attempts. This message shall not be returned in payload responses.

Version Added: 1.0.0

Severity: Critical

Resolution: None.

Message and Arguments: "Account <Arg1> has been locked due to excessive failed authorization attempts."

1. *string*: The account that has been locked.
 - This argument shall contain the account that has been locked.

2.1.6 AccountModified

Indicates that the account was successfully modified.

- This message shall indicate that the account was successfully modified.

Version Added: 1.0.0

Severity: OK

Resolution: None.

Message and Arguments: "Account <Arg1> was successfully modified."

1. *string*: The account that has been modified.
 - This argument shall contain the account that has been modified.

2.1.7 AccountNotModified

Indicates that the modification requested for the account was not successful.

- This message shall indicate that the modification requested for the account was not successful.

Version Added: 1.0.0

Severity: Warning

Resolution: The modification may have failed due to permission issues or issues with the request body.

Message and Arguments: "Account <Arg1> was not modified due to the following reason: <Arg2>."

1. *string*: The account that has not been modified.
 - This argument shall contain the account that has not been modified.
2. *string*: The reason the requested modification was not accepted.
 - This argument shall contain the reason that the account has not been modified.

2.1.8 AccountRemoved

Indicates that the account was successfully removed.

- This message shall indicate that the account was successfully removed.

Version Added: 1.0.0

Severity: OK

Resolution: None.

Message and Arguments: "Account <Arg1> was successfully removed."

1. *string*: The account that has been removed.
 - This argument shall contain the account that has been removed.

2.1.9 AccountUnlocked

Indicates that an account has been unlocked. This message shall not be returned in payload responses.

- This message shall indicate that an account has been unlocked. This message shall not be returned in payload responses.

Version Added: 1.0.0

Severity: OK

Resolution: None.

Message and Arguments: "Account <Arg1> has been unlocked."

1. *string*: The account that has been unlocked.
 - This argument shall contain the account that has been unlocked.

2.1.10 CertificateAdded

Indicates that a TLS user/account certificate has been installed.

- This message shall indicate that a TLS user/account certificate has been installed.

Version Added: 1.0.0

Severity: Warning

Resolution: None.

Message and Arguments: "A user/account certificate has been installed."

2.1.11 CertificateRemoved

Indicates that a TLS user/account certificate has been uninstalled.

- This message shall indicate that a TLS user/account certificate has been uninstalled.

Version Added: 1.0.0

Severity: Warning

Resolution: None.

Message and Arguments: "A user/account certificate has been uninstalled."

2.1.12 CertificateReplaced

Indicates that an existing TLS user/account certificate has been replaced within the service.

- This message shall indicate that an existing TLS user/account certificate has been replaced within the service.

Version Added: 1.0.0

Severity: Warning

Resolution: None.

Message and Arguments: "A user/account certificate has been replaced within the service."

2.1.13 IPRestrictionsNotMet

Indicates that supplied account name and password were not validated because the source IP was restricted. This message shall not be returned in payload responses.

- This message shall indicate that a login attempt failed because the source IP was restricted. This message shall not be returned in payload responses.

Version Added: 1.0.0

Severity: Warning

Resolution: None.

Message and Arguments: "Login from IP address <Arg1>, interface <Arg2> failed."

1. *string*: The source IP address from which a connection attempt was made.
 - This argument shall contain the source IP address from which a connection attempt was made.
2. *string*: The interface over which an attempt was made.
 - This argument shall contain the interface over which an attempt was made.

2.1.14 InsufficientPrivilege

Indicates that the credentials associated with the established session do not have sufficient privileges for the requested operation.

- This message shall indicate that the credentials associated with the established session do not have sufficient privileges for the requested operation.

Version Added: 1.0.0

Severity: Critical

Resolution: Either abandon the operation or change the associated access rights and resubmit the request if the operation failed.

Message and Arguments: "An operation was attempted from IP address <Arg1>, interface <Arg2>. The privileges for the account or credentials associated with the current session (<Arg3>) are insufficient to perform the requested operation (<Arg4> needed)."

1. *string*: The source IP address from which a connection attempt was made.
 - This argument shall contain the source IP address from which a connection attempt was made.
2. *string*: The interface over which an attempt was made.
 - This argument shall contain the interface over which an attempt was made.
3. *string*: The required privileges for the requested operation.
 - This argument shall contain the required privileges for the requested operation.
4. *string*: The current privileges for the requesting client.
 - This argument shall contain the current privileges for the requesting client.

2.1.15 InvalidCredentials

Indicates that supplied account name and password could not be validated. This message shall not be returned in payload responses.

- This message shall indicate that a login attempt failed because the supplied credentials could not be validated. This message shall not be returned in payload responses.

Version Added: 1.0.0

Severity: Warning

Resolution: None.

Message and Arguments: "Login from IP address <Arg1>, interface <Arg2> failed."

1. *string*: The source IP address from which a connection attempt was made.
 - This argument shall contain the source IP address from which a connection attempt was made.
2. *string*: The interface over which an attempt was made.
 - This argument shall contain the interface over which an attempt was made.

2.1.16 ManagerAccountPrivilegeAdded

Indicates that a privilege has been added to an account.

- This message shall indicate that a privilege has been added to an account.

Version Added: 1.0.0

Severity: Warning

Resolution: None.

Message and Arguments: "Account <Arg1> has had privilege <Arg2> added to it."

1. *string*: The account that has had a privilege added to it.
 - This argument shall contain the account that has had a privilege added to it.
2. *string*: The privilege that has been added to the account.
 - This argument shall contain the privilege that has been added to the account.

2.1.17 ManagerAccountPrivilegeRemoved

Indicates that a privilege has been removed from an account.

- This message shall indicate that a privilege has been removed from an account.

Version Added: 1.0.0

Severity: Warning

Resolution: None.

Message and Arguments: "Account <Arg1> has had privilege <Arg2> removed from it."

1. *string*: The account that has had a privilege removed from it.
 - This argument shall contain the account that has had a privilege removed from it.
2. *string*: The privilege that has been removed from the account.
 - This argument shall contain the privilege that has been removed from the account.

2.1.18 ManagerAccountRoleAdded

Indicates that a role has been added to an account.

- This message shall indicate that a role has been added to an account.

Version Added: 1.0.0

Severity: Warning

Resolution: None.

Message and Arguments: "Account <Arg1> has had role <Arg2> added to it."

1. *string*: The account that has had a role added to it
 - This argument shall contain the account that has had a role added to it.
2. *string*: The role that has been added to the account.
 - This argument shall contain the role that has been added to the account.

2.1.19 ManagerAccountRoleRemoved

Indicates that a role has been removed from an account.

- This message shall indicate that a role has been removed from an account.

Version Added: 1.0.0

Severity: Warning

Resolution: None.

Message and Arguments: "Account <Arg1> has had role <Arg2> removed from it."

1. *string*: The account that has had a role removed from it
 - This argument shall contain the account that has had a role removed from it.
2. *string*: The role that has been removed from the account.
 - This argument shall contain the role that has been removed from the account.

2.1.20 NoValidSession

Indicates that the operation failed because a valid session is required in order to access any resources.

- This message shall indicate that the operation failed because a valid session is required in order to access any resources.

Version Added: 1.0.0

Severity: Critical

Resolution: Establish a session before attempting any operations.

Message and Arguments: "An operation was attempted from IP address <Arg1>, interface <Arg2>. There is no valid session established with the implementation."

1. *string*: The source IP address from which a connection attempt was made.
 - This argument shall contain the source IP address from which a connection attempt was made.

2. *string*: The interface over which an attempt was made.
 - This argument shall contain the interface over which an attempt was made.

2.1.21 PasswordModified

Indicates that the password associated with an account has been changed. This message shall not be returned in payload responses.

- This message shall indicate that the password associated with an account has been changed. This message shall not be returned in payload responses.

Version Added: 1.0.0

Severity: Warning

Resolution: None.

Message and Arguments: "Account <Arg1> has had its password changed."

1. *string*: The account that has had its password reset.
 - This argument shall contain the account that has had its password reset.

2.1.22 SSHCredentialAdded

Indicates that an SSH user/account certificate or key thumbprint has been installed.

- This message shall indicate that an SSH user/account certificate or key thumbprint has been installed.

Version Added: 1.0.0

Severity: Warning

Resolution: None.

Message and Arguments: "An SSH credential has been installed."

2.1.23 SSHCredentialRemoved

Indicates that an SSH user/account certificate or key thumbprint has been uninstalled.

- This message shall indicate that an SSH user/account certificate or key thumbprint has been uninstalled.

Version Added: 1.0.0

Severity: Warning

Resolution: None.

Message and Arguments: "An SSH credential has been uninstalled."

2.1.24 SSHCredentialReplaced

Indicates that an existing SSH user/account certificate or key thumbprint has been replaced within the service.

- This message shall indicate that an existing SSH user/account certificate or key thumbprint has been replaced within the service.

Version Added: 1.0.0

Severity: Warning

Resolution: None.

Message and Arguments: "An SSH credential has been replaced within the service."

2.1.25 SuccessfulLogin

Indicates that the service successfully authorized the supplied credentials. This message shall not be returned in payload responses.

- This message shall indicate that the service successfully authorized the supplied credentials. This message shall not be returned in payload responses.

Version Added: 1.0.0

Severity: OK

Resolution: None.

Message and Arguments: "Login of account <Arg1> from IP address <Arg1>, interface <Arg2> succeeded."

1. *string*: The source IP address from which a connection attempt was made.
 - This argument shall contain the source IP address from which a connection attempt was made.
2. *string*: The interface over which an attempt was made.
 - This argument shall contain the interface over which an attempt was made.
3. *string*: The account that has logged in.
 - This argument shall contain the account that has logged in.

2.1.26 TimeRestrictionsNotMet

Indicates that supplied account name and password were not validated because the login attempt was made during a restricted time period. This message shall not be returned in payload responses.

- This message shall indicate that a login attempt failed because the login attempt was made during a restricted time period. This message shall not be returned in payload responses.

Version Added: 1.0.0

Severity: Warning

Resolution: None.

Message and Arguments: "Login from IP address <Arg1>, interface <Arg2> failed."

1. *string*: The source IP address from which a connection attempt was made.
 - This argument shall contain the source IP address from which a connection attempt was made.
2. *string*: The interface over which an attempt was made.
 - This argument shall contain the interface over which an attempt was made.

2.2 Environmental 1.1.0

This registry defines messages related to environmental sensors, heating and cooling equipment, or other environmental conditions.

Message	Severity	Description
FanFailed	Warning	Indicates that a fan has failed.
FanGroupCritical	Critical	Indicates that a fan group has a critical status.
FanGroupNormal	OK	Indicates that a fan group has returned to normal operations.
FanGroupWarning	Warning	Indicates that a fan group has a warning status.
FanInserted	OK	Indicates that a fan was inserted or installed.
FanRemoved	OK	Indicates that a fan was removed.
FanRestored	OK	Indicates that a fan was repaired or restored to normal operation.
FilterFailed	Warning	Indicates that a filter has failed.
FilterInserted	OK	Indicates that a filter was inserted or installed.

Message	Severity	Description
FilterRemoved	OK	Indicates that a filter was removed.
FilterRestored	OK	Indicates that a filter was repaired or restored to normal operation.
FlowRateAboveLowerCriticalThreshold	Warning	Indicates that a flow rate reading is no longer below the lower critical threshold but is still outside of normal operating range.
FlowRateAboveLowerFatalThreshold	Critical	Indicates that a flow rate reading is no longer below the lower fatal threshold but is still outside of normal operating range.
FlowRateAboveUpperCautionThreshold	Warning	Indicates that a flow rate reading is above the upper caution threshold.
FlowRateAboveUpperCriticalThreshold	Critical	Indicates that a flow rate reading is above the upper critical threshold.
FlowRateAboveUpperFatalThreshold	Critical	Indicates that a flow rate reading is above the upper fatal threshold.
FlowRateBelowLowerCautionThreshold	Warning	Indicates that a flow rate reading is below the lower caution threshold.
FlowRateBelowLowerCriticalThreshold	Critical	Indicates that a flow rate reading is below the lower critical threshold.
FlowRateBelowLowerFatalThreshold	Critical	Indicates that a flow rate reading is below the lower fatal threshold.
FlowRateBelowUpperCriticalThreshold	Warning	Indicates that a flow rate reading is no longer above the upper critical threshold but is still outside of normal operating range.
FlowRateBelowUpperFatalThreshold	Critical	Indicates that a flow rate reading is no longer above the upper fatal threshold but is still outside of normal operating range.
FlowRateCritical	Critical	Indicates that a flow rate reading exceeds an internal critical level.
FlowRateFatal	Fatal	Indicates that a flow rate reading exceeds an internal fatal level or flow rate reading is zero (0).
FlowRateNoLongerCritical	Warning	Indicates that a flow rate reading no longer exceeds an internal critical level but still exceeds an internal warning level.
FlowRateNoLongerFatal	Critical	Indicates that a flow rate reading is no longer exceeds an internal fatal level but is still exceeds an internal critical level.
FlowRateNormal	OK	Indicates that a flow rate reading is now within normal operating range.
FlowRateWarning	Warning	Indicates that a flow rate reading exceeds an internal warning level.
FluidLevelAboveLowerCriticalThreshold	Warning	Indicates that a fluid level reading is no longer below the lower critical threshold but is still outside of normal operating range.
FluidLevelAboveLowerFatalThreshold	Critical	Indicates that a fluid level reading is no longer below the lower fatal threshold but is still outside of normal operating range.
FluidLevelAboveUpperCautionThreshold	Warning	Indicates that a fluid level reading is above the upper caution threshold.
FluidLevelAboveUpperCriticalThreshold	Critical	Indicates that a fluid level reading is above the upper critical threshold.

Message	Severity	Description
FluidLevelAboveUpperFatalThreshold	Critical	Indicates that a fluid level reading is above the upper fatal threshold.
FluidLevelBelowLowerCautionThreshold	Warning	Indicates that a fluid level reading is below the lower caution threshold.
FluidLevelBelowLowerCriticalThreshold	Critical	Indicates that a fluid level reading is below the lower critical threshold.
FluidLevelBelowLowerFatalThreshold	Critical	Indicates that a fluid level reading is below the lower fatal threshold.
FluidLevelBelowUpperCriticalThreshold	Warning	Indicates that a fluid level reading is no longer above the upper critical threshold but is still outside of normal operating range.
FluidLevelBelowUpperFatalThreshold	Critical	Indicates that a fluid level reading is no longer above the upper fatal threshold but is still outside of normal operating range.
FluidLevelCritical	Critical	Indicates that a fluid level reading violates an internal critical level.
FluidLevelNoLongerCritical	Warning	Indicates that a fluid level reading no longer violates an internal critical level but still violates an internal warning level.
FluidLevelNormal	OK	Indicates that a fluid level reading is now within normal operating range.
FluidLevelWarning	Warning	Indicates that a fluid level reading violates an internal warning level.
FluidQualityCritical	Critical	Indicates that a fluid quality reading exceeds an internal critical level.
FluidQualityNoLongerCritical	Warning	Indicates that a fluid quality reading no longer exceeds an internal critical level but still exceeds an internal warning level.
FluidQualityNormal	OK	Indicates that a fluid quality reading is now within normal operating range.
FluidQualityWarning	Warning	Indicates that a fluid quality reading exceeds an internal warning level.
HumidityAboveLowerCriticalThreshold	Warning	Indicates that a humidity reading is no longer below the lower critical threshold but is still outside of normal operating range.
HumidityAboveUpperCautionThreshold	Warning	Indicates that a humidity reading is above the upper caution threshold.
HumidityAboveUpperCriticalThreshold	Critical	Indicates that a humidity reading is above the upper critical threshold.
HumidityBelowLowerCautionThreshold	Warning	Indicates that a humidity reading is below the lower caution threshold.
HumidityBelowLowerCriticalThreshold	Critical	Indicates that a humidity reading is below the lower critical threshold.
HumidityBelowUpperCriticalThreshold	Warning	Indicates that a humidity reading is no longer above the upper critical threshold but is still outside of normal operating range.
HumidityNormal	OK	Indicates that a humidity reading is now within normal operating range.
LeakDetectedCritical	Critical	Indicates that a leak detector state or leak detection group state exceeds an internal critical level.

Message	Severity	Description
LeakDetectedNormal	OK	Indicates that a leak detector state or leak detection group state is now within normal operating range.
LeakDetectedWarning	Warning	Indicates that a leak detector state or leak detection group exceeds an internal warning level.
PressureAboveLowerCriticalThreshold	Warning	Indicates that a pressure reading is no longer below the lower critical threshold but is still outside of normal operating range.
PressureAboveLowerFatalThreshold	Critical	Indicates that a pressure reading is no longer below the lower fatal threshold but is still outside of normal operating range.
PressureAboveUpperCautionThreshold	Warning	Indicates that a pressure reading is above the upper caution threshold.
PressureAboveUpperCriticalThreshold	Critical	Indicates that a pressure reading is above the upper critical threshold.
PressureAboveUpperFatalThreshold	Critical	Indicates that a pressure reading is above the upper fatal threshold.
PressureBelowLowerCautionThreshold	Warning	Indicates that a pressure reading is below the lower caution threshold.
PressureBelowLowerCriticalThreshold	Critical	Indicates that a pressure reading is below the lower critical threshold.
PressureBelowLowerFatalThreshold	Critical	Indicates that a pressure reading is below the lower fatal threshold.
PressureBelowUpperCriticalThreshold	Warning	Indicates that a pressure reading is no longer above the upper critical threshold but is still outside of normal operating range.
PressureBelowUpperFatalThreshold	Critical	Indicates that a pressure reading is no longer above the upper fatal threshold but is still outside of normal operating range.
PressureCritical	Critical	Indicates that a pressure reading exceeds an internal critical level.
PressureNoLongerCritical	Warning	Indicates that a pressure reading no longer violates an internal critical level but still violates an internal warning level.
PressureNormal	OK	Indicates that a pressure reading is now within normal operating range.
PressureWarning	Warning	Indicates that a pressure reading exceeds an internal warning level.
PumpFailed	Warning	Indicates that a pump has failed.
PumpInserted	OK	Indicates that a pump was inserted or installed.
PumpRemoved	OK	Indicates that a pump was removed.
PumpRestored	OK	Indicates that a pump was repaired or restored to normal operation.
TemperatureAboveLowerCriticalThreshold	Warning	Indicates that a temperature reading is no longer below the lower critical threshold but is still outside of normal operating range.
TemperatureAboveLowerFatalThreshold	Critical	Indicates that a temperature reading is no longer below the lower fatal threshold but is still outside of normal operating range.

Message	Severity	Description
TemperatureAboveUpperCautionThreshold	Warning	Indicates that a temperature reading is above the upper caution threshold.
TemperatureAboveUpperCriticalThreshold	Critical	Indicates that a temperature reading is above the upper critical threshold.
TemperatureAboveUpperFatalThreshold	Critical	Indicates that a temperature reading is above the upper fatal threshold.
TemperatureBelowLowerCautionThreshold	Warning	Indicates that a temperature reading is below the lower caution threshold.
TemperatureBelowLowerCriticalThreshold	Critical	Indicates that a temperature reading is below the lower critical threshold.
TemperatureBelowLowerFatalThreshold	Critical	Indicates that a temperature reading is below the lower fatal threshold.
TemperatureBelowUpperCriticalThreshold	Warning	Indicates that a temperature reading is no longer above the upper critical threshold but is still outside of normal operating range.
TemperatureBelowUpperFatalThreshold	Critical	Indicates that a temperature reading is no longer above the upper fatal threshold but is still outside of normal operating range.
TemperatureCritical	Critical	Indicates that a temperature reading exceeds an internal critical level.
TemperatureNoLongerCritical	Warning	Indicates that a temperature reading no longer exceeds an internal critical level but still exceeds an internal warning level.
TemperatureNormal	OK	Indicates that a temperature reading is now within normal operating range.
TemperatureWarning	Warning	Indicates that a temperature reading exceeds an internal warning level.

2.2.1 FanFailed

Indicates that a fan has failed.

- This message shall indicate that a fan has failed.

Version Added: 1.0.0

Severity: Warning

Resolution: Check the fan hardware and replace any faulty component.

Message and Arguments: "Fan '<Arg1>' has failed."

- string*: The name or identifier of the fan.
 - This argument shall contain a string that identifies or describes the `Fan` resource.

2.2.2 FanGroupCritical

Indicates that a fan group has a critical status.

- This message shall indicate that a fan group is operating in a critical state due to a fault or a change in configuration.

Version Added: 1.0.0

Severity: Critical

Resolution: None.

Message and Arguments: "Fan group '<Arg1>' is in a critical state."

1. *string*: The name or identifier of the fan group.
 - This argument shall contain a string that identifies or describes the group of Fan resources.

2.2.3 FanGroupNormal

Indicates that a fan group has returned to normal operations.

- This message shall indicate that a fan group has returned to a normal operating state.

Version Added: 1.0.0

Severity: OK

Resolution: None.

Message and Arguments: "Fan group '<Arg1>' is operating normally."

1. *string*: The name or identifier of the fan group.
 - This argument shall contain a string that identifies or describes the group of Fan resources.

2.2.4 FanGroupWarning

Indicates that a fan group has a warning status.

- This message shall indicate that a fan group is operating with a warning status or in a non-redundant state due to a fault or a change in configuration.

Version Added: 1.0.0

Severity: Warning

Resolution: None.

Message and Arguments: "Fan group '<Arg1>' is in a warning state."

1. *string*: The name or identifier of the fan group.
 - This argument shall contain a string that identifies or describes the group of Fan resources.

2.2.5 FanInserted

Indicates that a fan was inserted or installed.

- This message shall indicate that a fan was inserted or installed.

Version Added: 1.0.0

Severity: OK

Resolution: None.

Message and Arguments: "Fan '<Arg1>' was inserted."

1. *string*: The name or identifier of the fan.
 - This argument shall contain a string that identifies or describes the Fan resource.

2.2.6 FanRemoved

Indicates that a fan was removed.

- This message shall indicate that a fan was removed.

Version Added: 1.0.0

Severity: OK

Resolution: None.

Message and Arguments: "Fan '<Arg1>' was removed."

1. *string*: The name or identifier of the fan.
 - This argument shall contain a string that identifies or describes the Fan resource.

2.2.7 FanRestored

Indicates that a fan was repaired or restored to normal operation.

- This message shall indicate that a fan was repaired, replaced, or otherwise returned to normal operation.

Version Added: 1.0.0

Severity: OK

Resolution: None.

Message and Arguments: "Fan '<Arg1>' was restored."

1. *string*: The name or identifier of the fan.
 - This argument shall contain a string that identifies or describes the `Fan` resource.

2.2.8 FilterFailed

Indicates that a filter has failed.

- This message shall indicate that a filter has failed.

Version Added: 1.0.0

Severity: Warning

Resolution: Check the filter hardware and replace any faulty component.

Message and Arguments: "Filter '<Arg1>' has failed."

1. *string*: The name or identifier of the filter.
 - This argument shall contain a string that identifies or describes the `Filter` resource.

2.2.9 FilterInserted

Indicates that a filter was inserted or installed.

- This message shall indicate that a filter was inserted or installed.

Version Added: 1.0.0

Severity: OK

Resolution: None.

Message and Arguments: "Filter '<Arg1>' was inserted."

1. *string*: The name or identifier of the filter.
 - This argument shall contain a string that identifies or describes the `Filter` resource.

2.2.10 FilterRemoved

Indicates that a filter was removed.

- This message shall indicate that a filter was removed.

Version Added: 1.0.0

Severity: OK

Resolution: None.

Message and Arguments: "Filter '<Arg1>' was removed."

1. *string*: The name or identifier of the filter.
 - This argument shall contain a string that identifies or describes the `Filter` resource.

2.2.11 FilterRestored

Indicates that a filter was repaired or restored to normal operation.

- This message shall indicate that a filter was repaired, replaced, or otherwise returned to normal operation.

Version Added: 1.0.0

Severity: OK

Resolution: None.

Message and Arguments: "Filter '<Arg1>' was restored."

1. *string*: The name or identifier of the filter.
 - This argument shall contain a string that identifies or describes the `Filter` resource.

2.2.12 FlowRateAboveLowerCriticalThreshold

Indicates that a flow rate reading is no longer below the lower critical threshold but is still outside of normal operating range.

- This message shall indicate that a flow rate reading, previously below the lower critical threshold, no longer violates the lower critical threshold. However, the flow rate violates at least one lower threshold and is not within the normal operating range.

Version Added: 1.0.0

Severity: Warning

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Flow rate '<Arg1>' reading of <Arg2> L/min is now above the <Arg3> lower critical threshold but remains outside of normal range."

1. *string*: The name or identifier of the flow rate reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the flow rate reading.
2. *number*: The flow rate in litres per minute.
 - This argument shall contain the flow rate in litres per minute.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `LowerCritical` or `LowerCriticalUser` properties of the `Sensor` resource.

2.2.13 FlowRateAboveLowerFatalThreshold

Indicates that a flow rate reading is no longer below the lower fatal threshold but is still outside of normal operating range.

- This message shall indicate that a flow rate reading, previously below the lower fatal threshold, no longer violates the lower fatal threshold. However, the flow rate violates at least one lower threshold and is not within the normal operating range.

Version Added: 1.0.0

Severity: Critical

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Flow rate '<Arg1>' reading of <Arg2> L/min is now above the <Arg3> lower fatal threshold but remains outside of normal range."

1. *string*: The name or identifier of the flow rate reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the flow rate reading.
2. *number*: The flow rate in litres per minute.
 - This argument shall contain the flow rate in litres per minute.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `LowerFatal` property of the `Sensor` resource.

2.2.14 FlowRateAboveUpperCautionThreshold

Indicates that a flow rate reading is above the upper caution threshold.

- This message shall indicate that a flow rate reading violates an upper caution threshold. If the reading originates from a `Sensor` resource, the message shall indicate that the value of the `Reading` property is above the value of the `Reading` property within the `UpperCaution` OR `UpperCautionUser` properties. Otherwise, the message shall indicate that the reading violates an internal level or threshold.

Version Added: 1.0.0

Severity: Warning

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Flow rate '<Arg1>' reading of <Arg2> L/min is above the <Arg3> upper caution threshold."

1. *string*: The name or identifier of the flow rate reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the flow rate reading.
2. *number*: The flow rate in litres per minute.
 - This argument shall contain the flow rate in litres per minute.
3. *number*: The threshold value.
 - If the reading originated from a `Sensor` resource, this argument shall contain the value of the `Reading` property within the `UpperCaution` OR `UpperCautionUser` properties of the `Sensor` resource. Otherwise, this argument shall contain an internal level or threshold value.

2.2.15 FlowRateAboveUpperCriticalThreshold

Indicates that a flow rate reading is above the upper critical threshold.

- This message shall indicate that a flow rate reading violates an upper critical threshold. If the reading originates from a `Sensor` resource, the message shall indicate that the value of the `Reading` property is above the value of the `Reading` property within the `UpperCritical` or `UpperCriticalUser` properties.

Version Added: 1.0.0

Severity: Critical

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Flow rate '<Arg1>' reading of <Arg2> L/min is above the <Arg3> upper critical threshold."

1. *string*: The name or identifier of the flow rate reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the flow rate reading.
2. *number*: The flow rate in litres per minute.
 - This argument shall contain the flow rate in litres per minute.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `UpperCritical` or `UpperCriticalUser` properties of the `Sensor` resource.

2.2.16 FlowRateAboveUpperFatalThreshold

Indicates that a flow rate reading is above the upper fatal threshold.

- This message shall indicate that a flow rate reading violates an upper fatal threshold. If the reading originates from a `Sensor` resource, the message shall indicate that the value of the `Reading` property is above the value of the `Reading` property within the `UpperFatal` property.

Version Added: 1.0.0

Severity: Critical

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Flow rate '<Arg1>' reading of <Arg2> L/min is above the <Arg3> upper fatal threshold."

1. *string*: The name or identifier of the flow rate reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the flow rate reading.
2. *number*: The flow rate in litres per minute.
 - This argument shall contain the flow rate in litres per minute.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `UpperFatal` property of

the `Sensor` resource.

2.2.17 FlowRateBelowLowerCautionThreshold

Indicates that a flow rate reading is below the lower caution threshold.

- This message shall indicate that a flow rate reading violates a lower caution threshold. If the reading originates from a `Sensor` resource, the message shall indicate that the value of the `Reading` property is below the value of the `Reading` property within the `LowerCaution` or `LowerCautionUser` properties.

Version Added: 1.0.0

Severity: Warning

Resolution: Check the condition of the resource listed in `OriginOfCondition`.

Message and Arguments: "Flow rate '<Arg1>' reading of <Arg2> L/min is below the <Arg3> lower caution threshold."

1. *string*: The name or identifier of the flow rate reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the flow rate reading.
2. *number*: The flow rate in litres per minute.
 - This argument shall contain the flow rate in litres per minute.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `LowerCaution` or `LowerCautionUser` properties of the `Sensor` resource.

2.2.18 FlowRateBelowLowerCriticalThreshold

Indicates that a flow rate reading is below the lower critical threshold.

- This message shall indicate that a flow rate reading violates a lower critical threshold. If the reading originates from a `Sensor` resource, the message shall indicate that the value of the `Reading` property is below the value of the `Reading` property within the `LowerCritical` or `LowerCriticalUser` properties.

Version Added: 1.0.0

Severity: Critical

Resolution: Check the condition of the resource listed in `OriginOfCondition`.

Message and Arguments: "Flow rate '<Arg1>' reading of <Arg2> L/min is below the <Arg3> lower critical threshold."

1. *string*: The name or identifier of the flow rate reading.

- This argument shall contain a string that identifies or describes the location or physical context of the flow rate reading.
- 2. *number*: The flow rate in litres per minute.
 - This argument shall contain the flow rate in litres per minute.
- 3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `LowerCritical` or `LowerCriticalUser` properties of the `Sensor` resource.

2.2.19 FlowRateBelowLowerFatalThreshold

Indicates that a flow rate reading is below the lower fatal threshold.

- This message shall indicate that a flow rate reading violates a lower fatal threshold. If the reading originates from a `Sensor` resource, the message shall indicate that the value of the `Reading` property is below the value of the `Reading` property within the `LowerFatal` property.

Version Added: 1.0.0

Severity: Critical

Resolution: Check the condition of the resource listed in `OriginOfCondition`.

Message and Arguments: "Flow rate '<Arg1>' reading of <Arg2> L/min is below the <Arg3> lower fatal threshold."

1. *string*: The name or identifier of the flow rate reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the flow rate reading.
2. *number*: The flow rate in litres per minute.
 - This argument shall contain the flow rate in litres per minute.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `LowerFatal` property of the `Sensor` resource.

2.2.20 FlowRateBelowUpperCriticalThreshold

Indicates that a flow rate reading is no longer above the upper critical threshold but is still outside of normal operating range.

- This message shall indicate that a flow rate reading, previously above the upper critical threshold, no longer violates the upper critical threshold. However, the flow rate violates at least one upper threshold and is not within the normal operating range.

Version Added: 1.0.0

Severity: Warning

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Flow rate '<Arg1>' reading of <Arg2> L/min is now below the <Arg3> upper critical threshold but remains outside of normal range."

1. *string*: The name or identifier of the flow rate reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the flow rate reading.
2. *number*: The flow rate in litres per minute.
 - This argument shall contain the flow rate in litres per minute.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `UpperCritical` or `UpperCriticalUser` properties of the `Sensor` resource.

2.2.21 FlowRateBelowUpperFatalThreshold

Indicates that a flow rate reading is no longer above the upper fatal threshold but is still outside of normal operating range.

- This message shall indicate that a flow rate reading, previously above the upper fatal threshold, no longer violates the upper fatal threshold. However, the flow rate violates at least one upper threshold and is not within the normal operating range.

Version Added: 1.0.0

Severity: Critical

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Flow rate '<Arg1>' reading of <Arg2> L/min is now below the <Arg3> upper fatal threshold but remains outside of normal range."

1. *string*: The name or identifier of the flow rate reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the flow rate reading.
2. *number*: The flow rate in litres per minute.
 - This argument shall contain the flow rate in litres per minute.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `UpperFatal` property of the `Sensor` resource.

2.2.22 FlowRateCritical

Indicates that a flow rate reading exceeds an internal critical level.

- This message shall indicate that a flow rate reading violates an internal critical level. This message shall be used for flow rate properties or `Sensor` resources that implement boolean trip points for a critical limit, such as from hardware mechanisms with no threshold value. The flow rate properties or `Sensor` resources may contain readable thresholds that coexist with this unspecified trip point.

Version Added: 1.0.0

Severity: Critical

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Flow rate '<Arg1>' reading of <Arg2> L/min exceeds the critical level."

1. *string*: The name or identifier of the flow rate reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the flow rate reading.
2. *number*: The flow rate in litres per minute.
 - This argument shall contain the flow rate in litres per minute.

2.2.23 FlowRateFatal

Indicates that a flow rate reading exceeds an internal fatal level or flow rate reading is zero (0).

- This message shall indicate that a flow rate reading violates an internal fatal level. This message shall be used for flow rate properties or `Sensor` resources that implement boolean trip points for a fatal limit, such as from hardware mechanisms with no threshold value. The flow rate properties or `Sensor` resources may contain readable thresholds that coexist with this unspecified trip point.

Version Added: 1.0.0

Severity: Fatal

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Flow rate '<Arg1>' reading of <Arg2> L/min exceeds the fatal level."

1. *string*: The name or identifier of the flow rate reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the flow rate reading.

2. *number*: The flow rate in litres per minute.
 - This argument shall contain the flow rate in litres per minute.

2.2.24 FlowRateNoLongerCritical

Indicates that a flow rate reading no longer exceeds an internal critical level but still exceeds an internal warning level.

- This message shall indicate that a flow rate reading no longer violates an internal critical level but still violates an internal warning level. This message shall be used for flow rate properties or `Sensor` resources that implement boolean trip points for a critical limit, such as from hardware mechanisms with no threshold value. The flow rate properties or `Sensor` resources may contain readable thresholds that coexist with this unspecified trip point.

Version Added: 1.0.0

Severity: Warning

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Flow rate '<Arg1>' reading of <Arg2> L/min no longer exceeds the critical level."

1. *string*: The name or identifier of the flow rate reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the flow rate reading.
2. *number*: The flow rate in litres per minute.
 - This argument shall contain the flow rate in litres per minute.

2.2.25 FlowRateNoLongerFatal

Indicates that a flow rate reading is no longer exceeds an internal fatal level but is still exceeds an internal critical level.

- This message shall indicate that a flow rate reading no longer violates an internal fatal level but still violates an internal critical level. This message shall be used for flow rate properties or `Sensor` resources that implement boolean trip points for a fatal limit, such as from hardware mechanisms with no threshold value. The flow rate properties or `Sensor` resources may contain readable thresholds that coexist with this unspecified trip point.

Version Added: 1.0.0

Severity: Critical

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Flow rate '<Arg1>' reading of <Arg2> L/min no longer exceeds the fatal level."

1. *string*: The name or identifier of the flow rate reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the flow rate reading.
2. *number*: The flow rate in litres per minute.
 - This argument shall contain the flow rate in litres per minute.

2.2.26 FlowRateNormal

Indicates that a flow rate reading is now within normal operating range.

- This message shall indicate that a flow rate reading has returned to its normal operating range.

Version Added: 1.0.0

Severity: OK

Resolution: None.

Message and Arguments: "Flow rate '<Arg1>' reading of <Arg2> L/min is within normal operating range."

1. *string*: The name or identifier of the flow rate reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the flow rate reading.
2. *number*: The flow rate in litres per minute.
 - This argument shall contain the flow rate in litres per minute.

2.2.27 FlowRateWarning

Indicates that a flow rate reading exceeds an internal warning level.

- This message shall indicate that a flow rate reading violates an internal warning level. This message shall be used for flow rate properties or `Sensor` resources that implement boolean trip points for a caution limit, such as from hardware mechanisms with no threshold value. The flow rate properties or `Sensor` resources may contain readable thresholds that coexist with this unspecified trip point.

Version Added: 1.0.0

Severity: Warning

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Flow rate '<Arg1>' reading of <Arg2> L/min exceeds the warning level."

1. *string*: The name or identifier of the flow rate reading.

- This argument shall contain a string that identifies or describes the location or physical context of the flow rate reading.
- 2. *number*: The flow rate in litres per minute.
 - This argument shall contain the flow rate in litres per minute.

2.2.28 FluidLevelAboveLowerCriticalThreshold

Indicates that a fluid level reading is no longer below the lower critical threshold but is still outside of normal operating range.

- This message shall indicate that a fluid level reading, previously below the lower critical threshold, no longer violates the lower critical threshold. However, the fluid level violates at least one lower threshold and is not within the normal operating range.

Version Added: 1.0.0

Severity: Warning

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Fluid level '<Arg1>' reading of <Arg2> percent is now above the <Arg3> lower critical threshold but remains outside of normal range."

1. *string*: The name or identifier of the fluid level reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the fluid level reading.
2. *number*: The fluid level in percent.
 - This argument shall contain the fluid level in percent.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `LowerCritical` or `LowerCriticalUser` properties of the `Sensor` resource.

2.2.29 FluidLevelAboveLowerFatalThreshold

Indicates that a fluid level reading is no longer below the lower fatal threshold but is still outside of normal operating range.

- This message shall indicate that a fluid level reading, previously below the lower fatal threshold, no longer violates the lower fatal threshold. However, the fluid level violates at least one lower threshold and is not within the normal operating range.

Version Added: 1.0.0

Severity: Critical

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Fluid level '<Arg1>' reading of <Arg2> percent is now above the <Arg3> lower fatal threshold but remains outside of normal range."

1. *string*: The name or identifier of the fluid level reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the fluid level reading.
2. *number*: The fluid level in percent.
 - This argument shall contain the fluid level in percent.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `LowerFatal` property of the `Sensor` resource.

2.2.30 FluidLevelAboveUpperCautionThreshold

Indicates that a fluid level reading is above the upper caution threshold.

- This message shall indicate that a fluid level reading violates an upper caution threshold. If the reading originates from a `Sensor` resource, the message shall indicate that the value of the `Reading` property is above the value of the `Reading` property within the `UpperCaution` or `UpperCautionUser` properties. Otherwise, the message shall indicate that the reading violates an internal level or threshold.

Version Added: 1.0.0

Severity: Warning

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Fluid level '<Arg1>' reading of <Arg2> percent is above the <Arg3> upper caution threshold."

1. *string*: The name or identifier of the fluid level reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the fluid level reading.
2. *number*: The fluid level in percent.
 - This argument shall contain the fluid level in percent.
3. *number*: The threshold value.
 - If the reading originated from a `Sensor` resource, this argument shall contain the value of the `Reading` property within the `UpperCaution` or `UpperCautionUser` properties of the `Sensor` resource. Otherwise, this argument shall contain an internal level or threshold value.

2.2.31 FluidLevelAboveUpperCriticalThreshold

Indicates that a fluid level reading is above the upper critical threshold.

- This message shall indicate that a fluid level reading violates an upper critical threshold. If the reading originates from a `Sensor` resource, the message shall indicate that the value of the `Reading` property is above the value of the `Reading` property within the `UpperCritical` or `UpperCriticalUser` properties.

Version Added: 1.0.0

Severity: Critical

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Fluid level '<Arg1>' reading of <Arg2> percent is above the <Arg3> upper critical threshold."

1. *string*: The name or identifier of the fluid level reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the fluid level reading.
2. *number*: The fluid level in percent.
 - This argument shall contain the fluid level in percent.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `UpperCritical` or `UpperCriticalUser` properties of the `Sensor` resource.

2.2.32 FluidLevelAboveUpperFatalThreshold

Indicates that a fluid level reading is above the upper fatal threshold.

- This message shall indicate that a fluid level reading violates an upper fatal threshold. If the reading originates from a `Sensor` resource, the message shall indicate that the value of the `Reading` property is above the value of the `Reading` property within the `UpperFatal` property.

Version Added: 1.0.0

Severity: Critical

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Fluid level '<Arg1>' reading of <Arg2> percent is above the <Arg3> upper fatal threshold."

1. *string*: The name or identifier of the fluid level reading.

- This argument shall contain a string that identifies or describes the location or physical context of the fluid level reading.
2. *number*: The fluid level in percent.
 - This argument shall contain the fluid level in percent.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `UpperFatal` property of the `Sensor` resource.

2.2.33 FluidLevelBelowLowerCautionThreshold

Indicates that a fluid level reading is below the lower caution threshold.

- This message shall indicate that a fluid level reading violates a lower caution threshold. If the reading originates from a `Sensor` resource, the message shall indicate that the value of the `Reading` property is below the value of the `Reading` property within the `LowerCaution` or `LowerCautionUser` properties.

Version Added: 1.0.0

Severity: Warning

Resolution: Check the condition of the resource listed in `OriginOfCondition`.

Message and Arguments: "Fluid level '<Arg1>' reading of <Arg2> percent is below the <Arg3> lower caution threshold."

1. *string*: The name or identifier of the fluid level reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the fluid level reading.
2. *number*: The fluid level in percent.
 - This argument shall contain the fluid level in percent.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `LowerCaution` or `LowerCautionUser` properties of the `Sensor` resource.

2.2.34 FluidLevelBelowLowerCriticalThreshold

Indicates that a fluid level reading is below the lower critical threshold.

- This message shall indicate that a fluid level reading violates a lower critical threshold. If the reading originates from a `Sensor` resource, the message shall indicate that the value of the `Reading` property is below the value of the `Reading` property within the `LowerCritical` or `LowerCriticalUser` properties.

Version Added: 1.0.0

Severity: Critical

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Fluid level '<Arg1>' reading of <Arg2> percent is below the <Arg3> lower critical threshold."

1. *string*: The name or identifier of the fluid level reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the fluid level reading.
2. *number*: The fluid level in percent.
 - This argument shall contain the fluid level in percent.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `LowerCritical` or `LowerCriticalUser` properties of the `Sensor` resource.

2.2.35 FluidLevelBelowLowerFatalThreshold

Indicates that a fluid level reading is below the lower fatal threshold.

- This message shall indicate that a fluid level reading violates a lower fatal threshold. If the reading originates from a `Sensor` resource, the message shall indicate that the value of the `Reading` property is below the value of the `Reading` property within the `LowerFatal` property.

Version Added: 1.0.0

Severity: Critical

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Fluid level '<Arg1>' reading of <Arg2> percent is below the <Arg3> lower fatal threshold."

1. *string*: The name or identifier of the fluid level reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the fluid level reading.
2. *number*: The fluid level in percent.
 - This argument shall contain the fluid level in percent.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `LowerFatal` property of the `Sensor` resource.

2.2.36 FluidLevelBelowUpperCriticalThreshold

Indicates that a fluid level reading is no longer above the upper critical threshold but is still outside of normal operating range.

- This message shall indicate that a fluid level reading, previously above the upper critical threshold, no longer violates the upper critical threshold. However, the fluid level violates at least one upper threshold and is not within the normal operating range.

Version Added: 1.0.0

Severity: Warning

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Fluid level '<Arg1>' reading of <Arg2> percent is now below the <Arg3> upper critical threshold but remains outside of normal range."

1. *string*: The name or identifier of the fluid level reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the fluid level reading.
2. *number*: The fluid level in percent.
 - This argument shall contain the fluid level in percent.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `UpperCritical` or `UpperCriticalUser` properties of the `Sensor` resource.

2.2.37 FluidLevelBelowUpperFatalThreshold

Indicates that a fluid level reading is no longer above the upper fatal threshold but is still outside of normal operating range.

- This message shall indicate that a fluid level reading, previously above the upper fatal threshold, no longer violates the upper fatal threshold. However, the fluid level violates at least one upper threshold and is not within the normal operating range.

Version Added: 1.0.0

Severity: Critical

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Fluid level '<Arg1>' reading of <Arg2> percent is now below the <Arg3> upper fatal threshold but remains outside of normal range."

1. *string*: The name or identifier of the fluid level reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the fluid level reading.
2. *number*: The fluid level in percent.
 - This argument shall contain the fluid level in percent.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `UpperFatal` property of the `Sensor` resource.

2.2.38 FluidLevelCritical

Indicates that a fluid level reading violates an internal critical level.

- This message shall indicate that a fluid level reading violates an internal critical level. This message shall be used for fluid level properties or `Sensor` resources that implement boolean trip points for a critical limit, such as from hardware mechanisms with no threshold value. The fluid level properties or `Sensor` resources may contain readable thresholds that coexist with this unspecified trip point.

Version Added: 1.0.0

Severity: Critical

Resolution: Check the condition of the resource listed in `OriginOfCondition`.

Message and Arguments: "Fluid level '<Arg1>' reading violates the critical level."

1. *string*: The name or identifier of the fluid level reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the fluid level reading.

2.2.39 FluidLevelNoLongerCritical

Indicates that a fluid level reading no longer violates an internal critical level but still violates an internal warning level.

- This message shall indicate that a fluid level reading no longer violates an internal critical level but still violates an internal warning level. This message shall be used for fluid level properties or `Sensor` resources that implement boolean trip points for a critical limit, such as from hardware mechanisms with no threshold value. The fluid level properties or `Sensor` resources may contain readable thresholds that coexist with this unspecified trip point.

Version Added: 1.0.0

Severity: Warning

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Fluid level '<Arg1>' reading no longer violates the critical level."

1. *string*: The name or identifier of the fluid level reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the fluid level reading.

2.2.40 FluidLevelNormal

Indicates that a fluid level reading is now within normal operating range.

- This message shall indicate that a fluid level reading has returned to its normal operating range.

Version Added: 1.0.0

Severity: OK

Resolution: None.

Message and Arguments: "Fluid level '<Arg1>' reading is within normal operating range."

1. *string*: The name or identifier of the fluid level reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the fluid level reading.

2.2.41 FluidLevelWarning

Indicates that a fluid level reading violates an internal warning level.

- This message shall indicate that a fluid level reading violates an internal warning level. This message shall be used for fluid level properties or `Sensor` resources that implement boolean trip points for a caution limit, such as from hardware mechanisms with no threshold value. The fluid level properties or `Sensor` resources may contain readable thresholds that coexist with this unspecified trip point.

Version Added: 1.0.0

Severity: Warning

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Fluid level '<Arg1>' reading violates the warning level."

1. *string*: The name or identifier of the fluid level reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the fluid level reading.

2.2.42 FluidQualityCritical

Indicates that a fluid quality reading exceeds an internal critical level.

- This message shall indicate that a fluid quality reading violates an internal critical level. This message shall be used for fluid quality properties or `Sensor` resources that implement boolean trip points for a critical limit, such as from hardware mechanisms with no threshold value. The fluid quality properties or `Sensor` resources may contain readable thresholds that coexist with this unspecified trip point.

Version Added: 1.0.0

Severity: Critical

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Fluid quality '<Arg1>' reading exceeds the critical level."

1. *string*: The name or identifier of the fluid quality reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the fluid quality reading.

2.2.43 FluidQualityNoLongerCritical

Indicates that a fluid quality reading no longer exceeds an internal critical level but still exceeds an internal warning level.

- This message shall indicate that a fluid quality reading no longer violates an internal critical level but still violates an internal warning level. This message shall be used for fluid quality properties or `Sensor` resources that implement boolean trip points for a critical limit, such as from hardware mechanisms with no threshold value. The fluid quality properties or `Sensor` resources may contain readable thresholds that coexist with this unspecified trip point.

Version Added: 1.0.0

Severity: Warning

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Fluid quality '<Arg1>' reading no longer exceeds the critical level."

1. *string*: The name or identifier of the fluid quality reading.

- This argument shall contain a string that identifies or describes the location or physical context of the fluid quality reading.

2.2.44 FluidQualityNormal

Indicates that a fluid quality reading is now within normal operating range.

- This message shall indicate that a fluid quality reading has returned to its normal operating range.

Version Added: 1.0.0

Severity: OK

Resolution: None.

Message and Arguments: "Fluid quality '<Arg1>' reading is within normal operating range."

1. *string*: The name or identifier of the fluid quality reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the fluid quality reading.

2.2.45 FluidQualityWarning

Indicates that a fluid quality reading exceeds an internal warning level.

- This message shall indicate that a fluid quality reading violates an internal warning level. This message shall be used for fluid quality properties or `Sensor` resources that implement boolean trip points for a caution limit, such as from hardware mechanisms with no threshold value. The fluid quality properties or `Sensor` resources may contain readable thresholds that coexist with this unspecified trip point.

Version Added: 1.0.0

Severity: Warning

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Fluid quality '<Arg1>' reading exceeds the warning level."

1. *string*: The name or identifier of the fluid quality reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the fluid quality reading.

2.2.46 HumidityAboveLowerCriticalThreshold

Indicates that a humidity reading is no longer below the lower critical threshold but is still outside of normal operating range.

- This message shall indicate that a humidity reading, previously below the lower critical threshold, no longer violates the lower critical threshold. However, the humidity violates at least one lower threshold and is not within the normal operating range.

Version Added: 1.0.0

Severity: Warning

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Humidity '<Arg1>' reading of <Arg2> percent is now above the <Arg3> lower critical threshold but remains outside of normal range."

1. *string*: The name or identifier of the humidity reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the humidity reading.
2. *number*: The percent humidity.
 - This argument shall contain the humidity as a percentage.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `LowerCritical` or `LowerCriticalUser` properties of the `Sensor` resource.

2.2.47 HumidityAboveUpperCautionThreshold

Indicates that a humidity reading is above the upper caution threshold.

- This message shall indicate that a humidity reading violates an upper caution threshold. If the reading originates from a `Sensor` resource, the message shall indicate that the value of the `Reading` property is above the value of the `Reading` property within the `UpperCaution` or `UpperCautionUser` properties.

Version Added: 1.0.0

Severity: Warning

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Humidity '<Arg1>' reading of <Arg2> percent is above the <Arg3> upper caution threshold."

1. *string*: The name or identifier of the humidity reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the humidity reading.
2. *number*: The humidity in percent units.
 - This argument shall contain the humidity as a percentage.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `UpperCaution` or `UpperCautionUser` properties of the `Sensor` resource.

2.2.48 HumidityAboveUpperCriticalThreshold

Indicates that a humidity reading is above the upper critical threshold.

- This message shall indicate that a humidity reading violates an upper caution threshold. If the reading originates from a `Sensor` resource, the message shall indicate that the value of the `Reading` property is above the value of the `Reading` property within the `UpperCritical` or `UpperCriticalUser` properties.

Version Added: 1.0.0

Severity: Critical

Resolution: Check the condition of the resource listed in `OriginOfCondition`.

Message and Arguments: "Humidity '<Arg1>' reading of <Arg2> percent is above the <Arg3> upper critical threshold."

1. *string*: The name or identifier of the humidity reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the humidity reading.
2. *number*: The humidity in percent units.
 - This argument shall contain the humidity as a percentage.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `UpperCritical` or `UpperCriticalUser` properties of the `Sensor` resource.

2.2.49 HumidityBelowLowerCautionThreshold

Indicates that a humidity reading is below the lower caution threshold.

- This message shall indicate that a humidity reading violates a lower caution threshold. If the reading originates from a `Sensor` resource, the message shall indicate that the value of the `Reading` property is below the value of the `Reading` property within the `LowerCaution` or `LowerCautionUser` properties.

Version Added: 1.0.0

Severity: Warning

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Humidity '<Arg1>' reading of <Arg2> percent is below the <Arg3> lower caution threshold."

1. *string*: The name or identifier of the humidity reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the humidity reading.
2. *number*: The humidity in percent units.
 - This argument shall contain the humidity as a percentage.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `LowerCaution` or `LowerCautionUser` properties of the `Sensor` resource.

2.2.50 HumidityBelowLowerCriticalThreshold

Indicates that a humidity reading is below the lower critical threshold.

- This message shall indicate that a humidity reading violates a lower critical threshold. If the reading originates from a `Sensor` resource, the message shall indicate that the value of the `Reading` property is below the value of the `Reading` property within the `LowerCritical` or `LowerCriticalUser` properties.

Version Added: 1.0.0

Severity: Critical

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Humidity '<Arg1>' reading of <Arg2> percent is below the <Arg3> lower critical threshold."

1. *string*: The name or identifier of the humidity reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the humidity reading.
2. *number*: The humidity in percent units.
 - This argument shall contain the humidity as a percentage.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `UpperCritical` or `UpperCriticalUser` properties of the `Sensor` resource.

2.2.51 HumidityBelowUpperCriticalThreshold

Indicates that a humidity reading is no longer above the upper critical threshold but is still outside of normal operating range.

- This message shall indicate that a humidity reading, previously above the critical threshold, no longer violates the critical threshold. However, the humidity violates at least one upper threshold and is not within the normal operating range.

Version Added: 1.0.0

Severity: Warning

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Humidity '<Arg1>' reading of <Arg2> percent is now below the <Arg3> upper critical threshold but remains outside of normal range."

1. *string*: The name or identifier of the humidity reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the temperature reading.
2. *number*: The percent humidity.
 - This argument shall contain the humidity as a percentage.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `UpperCritical` or `UpperCriticalUser` properties of the `Sensor` resource.

2.2.52 HumidityNormal

Indicates that a humidity reading is now within normal operating range.

- This message shall indicate that a humidity reading has returned to its normal operating range.

Version Added: 1.0.0

Severity: OK

Resolution: None.

Message and Arguments: "Humidity '<Arg1>' reading of <Arg2> percent is within normal operating range."

1. *string*: The name or identifier of the humidity reading.
 - This argument shall contain a string that identifies or describes the location or physical context of

- the humidity reading.
- 2. *number*: The percent humidity.
 - This argument shall contain the humidity as a percentage.

2.2.53 LeakDetectedCritical

Indicates that a leak detector state or leak detection group state exceeds an internal critical level.

- This message shall indicate that a leak detector state violates an internal critical level. This message shall be used for leak detector properties, leak detector groups or `Sensor` resources that implement boolean trip points for a critical limit, such as from hardware mechanisms with no threshold value. The leak detector properties, leak detector groups or `Sensor` resources may contain readable thresholds that coexist with this unspecified trip point.

Version Added: 1.0.0

Severity: Critical

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Leak detector '<Arg1>' reports a critical level leak."

1. *string*: The name or identifier of the leak detector.
 - This argument shall contain a string that identifies or describes the location or physical context of the leak detector.

2.2.54 LeakDetectedNormal

Indicates that a leak detector state or leak detection group state is now within normal operating range.

- This message shall indicate that a leak detector state or leak detection group state has returned to its normal operating state.

Version Added: 1.0.0

Severity: OK

Resolution: None.

Message and Arguments: "Leak detector '<Arg1>' has returned to normal."

1. *string*: The name or identifier of the leak detector.
 - This argument shall contain a string that identifies or describes the location or physical context of the leak detector.

2.2.55 LeakDetectedWarning

Indicates that a leak detector state or leak detection group exceeds an internal warning level.

- This message shall indicate that a leak detector state violates an internal warning level. This message shall be used for leak detector properties, leak detector groups or `Sensor` resources that implement boolean trip points for a warning limit, such as from hardware mechanisms with no threshold value. The leak detector properties, leak detector groups or `Sensor` resources may contain readable thresholds that coexist with this unspecified trip point.

Version Added: 1.0.0

Severity: Warning

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Leak detector '<Arg1>' reports a warning level leak."

1. *string*: The name or identifier of the leak detector.
 - This argument shall contain a string that identifies or describes the location or physical context of the leak detector.

2.2.56 PressureAboveLowerCriticalThreshold

Indicates that a pressure reading is no longer below the lower critical threshold but is still outside of normal operating range.

- This message shall indicate that a pressure reading, previously below the lower critical threshold, no longer violates the lower critical threshold. However, the pressure violates at least one lower threshold and is not within the normal operating range.

Version Added: 1.0.0

Severity: Warning

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Pressure '<Arg1>' reading of <Arg2> kPa is now above the <Arg3> lower critical threshold but remains outside of normal range."

1. *string*: The name or identifier of the pressure reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the pressure reading.

2. *number*: The pressure in Kilopascals.
 - This argument shall contain the pressure in Kilopascals.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `LowerCritical` or `LowerCriticalUser` properties of the `Sensor` resource.

2.2.57 PressureAboveLowerFatalThreshold

Indicates that a pressure reading is no longer below the lower fatal threshold but is still outside of normal operating range.

- This message shall indicate that a pressure reading, previously below the lower fatal threshold, no longer violates the lower fatal threshold. However, the pressure violates at least one lower threshold and is not within the normal operating range.

Version Added: 1.0.0

Severity: Critical

Resolution: Check the condition of the resource listed in `OriginOfCondition`.

Message and Arguments: "Pressure '<Arg1>' reading of <Arg2> kPa is now above the <Arg3> lower fatal threshold but remains outside of normal range."

1. *string*: The name or identifier of the pressure reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the pressure reading.
2. *number*: The pressure in Kilopascals.
 - This argument shall contain the pressure in Kilopascals.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `LowerFatal` property of the `Sensor` resource.

2.2.58 PressureAboveUpperCautionThreshold

Indicates that a pressure reading is above the upper caution threshold.

- This message shall indicate that a pressure reading violates an upper caution threshold. If the reading originates from a `Sensor` resource, the message shall indicate that the value of the `Reading` property is above the value of the `Reading` property within the `UpperCaution` or `UpperCautionUser` properties. Otherwise, the message shall indicate that the reading violates an internal level or threshold.

Version Added: 1.0.0

Severity: Warning

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Pressure '<Arg1>' reading of <Arg2> kPa is above the <Arg3> upper caution threshold."

1. *string*: The name or identifier of the pressure reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the pressure reading.
2. *number*: The pressure in Kilopascals.
 - This argument shall contain the pressure in Kilopascals.
3. *number*: The threshold value.
 - If the reading originated from a `Sensor` resource, this argument shall contain the value of the `Reading` property within the `UpperCaution` or `UpperCautionUser` properties of the `Sensor` resource. Otherwise, this argument shall contain an internal level or threshold value.

2.2.59 PressureAboveUpperCriticalThreshold

Indicates that a pressure reading is above the upper critical threshold.

- This message shall indicate that a pressure reading violates an upper critical threshold. If the reading originates from a `Sensor` resource, the message shall indicate that the value of the `Reading` property is above the value of the `Reading` property within the `UpperCritical` or `UpperCriticalUser` properties.

Version Added: 1.0.0

Severity: Critical

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Pressure '<Arg1>' reading of <Arg2> kPa is above the <Arg3> upper critical threshold."

1. *string*: The name or identifier of the pressure reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the pressure reading.
2. *number*: The pressure in Kilopascals.
 - This argument shall contain the pressure in Kilopascals.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `UpperCritical` or `UpperCriticalUser` properties of the `Sensor` resource.

2.2.60 PressureAboveUpperFatalThreshold

Indicates that a pressure reading is above the upper fatal threshold.

- This message shall indicate that a pressure reading violates an upper fatal threshold. If the reading originates from a `Sensor` resource, the message shall indicate that the value of the `Reading` property is above the value of the `Reading` property within the `UpperFatal` property.

Version Added: 1.0.0

Severity: Critical

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Pressure '<Arg1>' reading of <Arg2> kPa is above the <Arg3> upper fatal threshold."

1. *string*: The name or identifier of the pressure reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the pressure reading.
2. *number*: The pressure in Kilopascals.
 - This argument shall contain the pressure in Kilopascals.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `UpperFatal` property of the `Sensor` resource.

2.2.61 PressureBelowLowerCautionThreshold

Indicates that a pressure reading is below the lower caution threshold.

- This message shall indicate that a pressure reading violates a lower caution threshold. If the reading originates from a `Sensor` resource, the message shall indicate that the value of the `Reading` property is below the value of the `Reading` property within the `LowerCaution` OR `LowerCautionUser` properties.

Version Added: 1.0.0

Severity: Warning

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Pressure '<Arg1>' reading of <Arg2> kPa is below the <Arg3> lower caution threshold."

1. *string*: The name or identifier of the pressure reading.
 - This argument shall contain a string that identifies or describes the location or physical context of

- the pressure reading.
2. *number*: The pressure in Kilopascals.
 - This argument shall contain the pressure in Kilopascals.
 3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `LowerCaution` or `LowerCautionUser` properties of the `Sensor` resource.

2.2.62 PressureBelowLowerCriticalThreshold

Indicates that a pressure reading is below the lower critical threshold.

- This message shall indicate that a pressure reading violates a lower critical threshold. If the reading originates from a `Sensor` resource, the message shall indicate that the value of the `Reading` property is below the value of the `Reading` property within the `LowerCritical` or `LowerCriticalUser` properties.

Version Added: 1.0.0

Severity: Critical

Resolution: Check the condition of the resource listed in `OriginOfCondition`.

Message and Arguments: "Pressure '<Arg1>' reading of <Arg2> kPa is below the <Arg3> lower critical threshold."

1. *string*: The name or identifier of the pressure reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the pressure reading.
2. *number*: The pressure in Kilopascals.
 - This argument shall contain the pressure in Kilopascals.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `LowerCritical` or `LowerCriticalUser` properties of the `Sensor` resource.

2.2.63 PressureBelowLowerFatalThreshold

Indicates that a pressure reading is below the lower fatal threshold.

- This message shall indicate that a pressure reading violates a lower fatal threshold. If the reading originates from a `Sensor` resource, the message shall indicate that the value of the `Reading` property is below the value of the `Reading` property within the `LowerFatal` property.

Version Added: 1.0.0

Severity: Critical

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Pressure '<Arg1>' reading of <Arg2> kPa is below the <Arg3> lower fatal threshold."

1. *string*: The name or identifier of the pressure reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the pressure reading.
2. *number*: The pressure in Kilopascals.
 - This argument shall contain the pressure in Kilopascals.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `LowerFatal` property of the `Sensor` resource.

2.2.64 PressureBelowUpperCriticalThreshold

Indicates that a pressure reading is no longer above the upper critical threshold but is still outside of normal operating range.

- This message shall indicate that a pressure reading, previously above the upper critical threshold, no longer violates the upper critical threshold. However, the pressure violates at least one upper threshold and is not within the normal operating range.

Version Added: 1.0.0

Severity: Warning

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Pressure '<Arg1>' reading of <Arg2> kPa is now below the <Arg3> upper critical threshold but remains outside of normal range."

1. *string*: The name or identifier of the pressure reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the pressure reading.
2. *number*: The pressure in Kilopascals.
 - This argument shall contain the pressure in Kilopascals.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `UpperCritical` or `UpperCriticalUser` properties of the `Sensor` resource.

2.2.65 PressureBelowUpperFatalThreshold

Indicates that a pressure reading is no longer above the upper fatal threshold but is still outside of normal operating range.

- This message shall indicate that a pressure reading, previously above the upper fatal threshold, no longer violates the upper fatal threshold. However, the pressure violates at least one upper threshold and is not within the normal operating range.

Version Added: 1.0.0

Severity: Critical

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Pressure '<Arg1>' reading of <Arg2> kPa is now below the <Arg3> upper fatal threshold but remains outside of normal range."

1. *string*: The name or identifier of the pressure reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the pressure reading.
2. *number*: The pressure in Kilopascals.
 - This argument shall contain the pressure in Kilopascals.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `UpperFatal` property of the `Sensor` resource.

2.2.66 PressureCritical

Indicates that a pressure reading exceeds an internal critical level.

- This message shall indicate that a pressure reading violates an internal critical level. This message shall be used for pressure properties or `Sensor` resources that implement boolean trip points for a critical limit, such as from hardware mechanisms with no threshold value. The pressure properties or `Sensor` resources may contain readable thresholds that coexist with this unspecified trip point.

Version Added: 1.0.0

Severity: Critical

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Pressure '<Arg1>' reading of <Arg2> kPa exceeds the critical level."

1. *string*: The name or identifier of the pressure reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the pressure reading.
2. *number*: The pressure in Kilopascals.
 - This argument shall contain the pressure in Kilopascals.

2.2.67 PressureNoLongerCritical

Indicates that a pressure reading no longer violates an internal critical level but still violates an internal warning level.

- This message shall indicate that a pressure reading no longer violates an internal critical level but still violates an internal warning level. This message shall be used for pressure properties or `Sensor` resources that implement boolean trip points for a critical limit, such as from hardware mechanisms with no threshold value. The pressure properties or `Sensor` resources may contain readable thresholds that coexist with this unspecified trip point.

Version Added: 1.0.0

Severity: Warning

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Pressure '<Arg1>' reading of <Arg2> kPa no longer violates the critical level."

1. *string*: The name or identifier of the pressure reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the pressure reading.
2. *number*: The pressure in Kilopascals.
 - This argument shall contain the pressure in Kilopascals.

2.2.68 PressureNormal

Indicates that a pressure reading is now within normal operating range.

- This message shall indicate that a pressure reading has returned to its normal operating range.

Version Added: 1.0.0

Severity: OK

Resolution: None.

Message and Arguments: "Pressure '<Arg1>' reading of <Arg2> kPa is within normal operating range."

1. *string*: The name or identifier of the pressure reading.

- This argument shall contain a string that identifies or describes the location or physical context of the pressure reading.
- 2. *number*: The pressure in Kilopascals.
 - This argument shall contain the pressure in Kilopascals.

2.2.69 PressureWarning

Indicates that a pressure reading exceeds an internal warning level.

- This message shall indicate that a pressure reading violates an internal warning level. This message shall be used for pressure properties or `Sensor` resources that implement boolean trip points for a caution limit, such as from hardware mechanisms with no threshold value. The pressure properties or `Sensor` resources may contain readable thresholds that coexist with this unspecified trip point.

Version Added: 1.0.0

Severity: Warning

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Pressure '<Arg1>' reading of <Arg2> kPa exceeds the warning level."

1. *string*: The name or identifier of the pressure reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the pressure reading.
2. *number*: The pressure in Kilopascals.
 - This argument shall contain the pressure in Kilopascals.

2.2.70 PumpFailed

Indicates that a pump has failed.

- This message shall indicate that a pump has failed.

Version Added: 1.0.0

Severity: Warning

Resolution: Check the pump hardware and replace any faulty component.

Message and Arguments: "Pump '<Arg1>' has failed."

1. *string*: The name or identifier of the pump.
 - This argument shall contain a string that identifies or describes the `Pump` resource.

2.2.71 PumpInserted

Indicates that a pump was inserted or installed.

- This message shall indicate that a pump was inserted or installed.

Version Added: 1.0.0

Severity: OK

Resolution: None.

Message and Arguments: "Pump '<Arg1>' was inserted."

1. *string*: The name or identifier of the pump.
 - This argument shall contain a string that identifies or describes the `Pump` resource.

2.2.72 PumpRemoved

Indicates that a pump was removed.

- This message shall indicate that a pump was removed.

Version Added: 1.0.0

Severity: OK

Resolution: None.

Message and Arguments: "Pump '<Arg1>' was removed."

1. *string*: The name or identifier of the pump.
 - This argument shall contain a string that identifies or describes the `Pump` resource.

2.2.73 PumpRestored

Indicates that a pump was repaired or restored to normal operation.

- This message shall indicate that a pump was repaired, replaced, or otherwise returned to normal operation.

Version Added: 1.0.0

Severity: OK

Resolution: None.

Message and Arguments: "Pump '<Arg1>' was restored."

1. *string*: The name or identifier of the pump.
 - This argument shall contain a string that identifies or describes the `Pump` resource.

2.2.74 TemperatureAboveLowerCriticalThreshold

Indicates that a temperature reading is no longer below the lower critical threshold but is still outside of normal operating range.

- This message shall indicate that a temperature reading, previously below the lower critical threshold, no longer violates the lower critical threshold. However, the temperature violates at least one lower threshold and is not within the normal operating range.

Version Added: 1.0.0

Severity: Warning

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Temperature '<Arg1>' reading of <Arg2> degrees (C) is now above the <Arg3> lower critical threshold but remains outside of normal range."

1. *string*: The name or identifier of the temperature reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the temperature reading.
2. *number*: The temperature in degrees Celsius.
 - This argument shall contain the temperature in degrees Celsius.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `LowerCritical` or `LowerCriticalUser` properties of the `Sensor` resource.

2.2.75 TemperatureAboveLowerFatalThreshold

Indicates that a temperature reading is no longer below the lower fatal threshold but is still outside of normal operating range.

- This message shall indicate that a temperature reading, previously below the lower fatal threshold, no longer violates the lower fatal threshold. However, the temperature violates at least one lower threshold and is not within the normal operating range.

Version Added: 1.0.0

Severity: Critical

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Temperature '<Arg1>' reading of <Arg2> degrees (C) is now above the <Arg3> lower fatal threshold but remains outside of normal range."

1. *string*: The name or identifier of the temperature reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the temperature reading.
2. *number*: The temperature in degrees Celsius.
 - This argument shall contain the temperature in degrees Celsius.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `LowerFatal` property of the `Sensor` resource.

2.2.76 TemperatureAboveUpperCautionThreshold

Indicates that a temperature reading is above the upper caution threshold.

- This message shall indicate that a temperature reading violates an upper caution threshold. If the reading originates from a `Sensor` resource, the message shall indicate that the value of the `Reading` property is above the value of the `Reading` property within the `UpperCaution` or `UpperCautionUser` properties. Otherwise, the message shall indicate that the reading violates an internal level or threshold.

Version Added: 1.0.0

Severity: Warning

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Temperature '<Arg1>' reading of <Arg2> degrees (C) is above the <Arg3> upper caution threshold."

1. *string*: The name or identifier of the temperature reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the temperature reading.
2. *number*: The temperature in degrees Celsius.
 - This argument shall contain the temperature in degrees Celsius.
3. *number*: The threshold value.
 - If the reading originated from a `Sensor` resource, this argument shall contain the value of the `Reading` property within the `UpperCaution` or `UpperCautionUser` properties of the `Sensor` resource. Otherwise, this argument shall contain an internal level or threshold value.

2.2.77 TemperatureAboveUpperCriticalThreshold

Indicates that a temperature reading is above the upper critical threshold.

- This message shall indicate that a temperature reading violates an upper critical threshold. If the reading originates from a `Sensor` resource, the message shall indicate that the value of the `Reading` property is above the value of the `Reading` property within the `UpperCritical` or `UpperCriticalUser` properties.

Version Added: 1.0.0

Severity: Critical

Resolution: Check the condition of the resource listed in `OriginOfCondition`.

Message and Arguments: "Temperature '<Arg1>' reading of <Arg2> degrees (C) is above the <Arg3> upper critical threshold."

1. *string*: The name or identifier of the temperature reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the temperature reading.
2. *number*: The temperature in degrees Celsius.
 - This argument shall contain the temperature in degrees Celsius.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `UpperCritical` or `UpperCriticalUser` properties of the `Sensor` resource.

2.2.78 TemperatureAboveUpperFatalThreshold

Indicates that a temperature reading is above the upper fatal threshold.

- This message shall indicate that a temperature reading violates an upper fatal threshold. If the reading originates from a `Sensor` resource, the message shall indicate that the value of the `Reading` property is above the value of the `Reading` property within the `UpperFatal` property.

Version Added: 1.0.0

Severity: Critical

Resolution: Check the condition of the resource listed in `OriginOfCondition`.

Message and Arguments: "Temperature '<Arg1>' reading of <Arg2> degrees (C) is above the <Arg3> upper fatal threshold."

1. *string*: The name or identifier of the temperature reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the temperature reading.
2. *number*: The temperature in degrees Celsius.
 - This argument shall contain the temperature in degrees Celsius.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `UpperFatal` property of the `Sensor` resource.

2.2.79 TemperatureBelowLowerCautionThreshold

Indicates that a temperature reading is below the lower caution threshold.

- This message shall indicate that a temperature reading violates a lower caution threshold. If the reading originates from a `Sensor` resource, the message shall indicate that the value of the `Reading` property is below the value of the `Reading` property within the `LowerCaution` or `LowerCautionUser` properties.

Version Added: 1.0.0

Severity: Warning

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Temperature '<Arg1>' reading of <Arg2> degrees (C) is below the <Arg3> lower caution threshold."

1. *string*: The name or identifier of the temperature reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the temperature reading.
2. *number*: The temperature in degrees Celsius.
 - This argument shall contain the temperature in degrees Celsius.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `LowerCaution` or `LowerCautionUser` properties of the `Sensor` resource.

2.2.80 TemperatureBelowLowerCriticalThreshold

Indicates that a temperature reading is below the lower critical threshold.

- This message shall indicate that a temperature reading violates a lower critical threshold. If the reading originates from a `Sensor` resource, the message shall indicate that the value of the `Reading` property is below the value of the `Reading` property within the `LowerCritical` or `LowerCriticalUser` properties.

Version Added: 1.0.0

Severity: Critical

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Temperature '<Arg1>' reading of <Arg2> degrees (C) is below the <Arg3> lower critical threshold."

1. *string*: The name or identifier of the temperature reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the temperature reading.
2. *number*: The temperature in degrees Celsius.
 - This argument shall contain the temperature in degrees Celsius.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `LowerCritical` or `LowerCriticalUser` properties of the `Sensor` resource.

2.2.81 TemperatureBelowLowerFatalThreshold

Indicates that a temperature reading is below the lower fatal threshold.

- This message shall indicate that a temperature reading violates a lower fatal threshold. If the reading originates from a `Sensor` resource, the message shall indicate that the value of the `Reading` property is below the value of the `Reading` property within the `LowerFatal` property.

Version Added: 1.0.0

Severity: Critical

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Temperature '<Arg1>' reading of <Arg2> degrees (C) is below the <Arg3> lower fatal threshold."

1. *string*: The name or identifier of the temperature reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the temperature reading.
2. *number*: The temperature in degrees Celsius.
 - This argument shall contain the temperature in degrees Celsius.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `LowerFatal` property of the `Sensor` resource.

2.2.82 TemperatureBelowUpperCriticalThreshold

Indicates that a temperature reading is no longer above the upper critical threshold but is still outside of normal operating range.

- This message shall indicate that a temperature reading, previously above the upper critical threshold, no longer violates the upper critical threshold. However, the temperature violates at least one upper threshold and is not within the normal operating range.

Version Added: 1.0.0

Severity: Warning

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Temperature '<Arg1>' reading of <Arg2> degrees (C) is now below the <Arg3> upper critical threshold but remains outside of normal range."

1. *string*: The name or identifier of the temperature reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the temperature reading.
2. *number*: The temperature in degrees Celsius.
 - This argument shall contain the temperature in degrees Celsius.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `UpperCritical` or `UpperCriticalUser` properties of the `Sensor` resource.

2.2.83 TemperatureBelowUpperFatalThreshold

Indicates that a temperature reading is no longer above the upper fatal threshold but is still outside of normal operating range.

- This message shall indicate that a temperature reading, previously above the upper fatal threshold, no longer violates the upper fatal threshold. However, the temperature violates at least one upper threshold and is not within the normal operating range.

Version Added: 1.0.0

Severity: Critical

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Temperature '<Arg1>' reading of <Arg2> degrees (C) is now below the <Arg3> upper fatal threshold but remains outside of normal range."

1. *string*: The name or identifier of the temperature reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the temperature reading.
2. *number*: The temperature in degrees Celsius.
 - This argument shall contain the temperature in degrees Celsius.
3. *number*: The threshold value.
 - This argument shall contain the value of the `Reading` property within the `UpperFatal` property of the `Sensor` resource.

2.2.84 TemperatureCritical

Indicates that a temperature reading exceeds an internal critical level.

- This message shall indicate that a temperature reading violates an internal critical level. This message shall be used for temperature properties or `Sensor` resources that implement boolean trip points for a critical limit, such as from hardware mechanisms with no threshold value. The temperature properties or `Sensor` resources may contain readable thresholds that coexist with this unspecified trip point.

Version Added: 1.0.0

Severity: Critical

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Temperature '<Arg1>' reading of <Arg2> degrees (C) exceeds the critical level."

1. *string*: The name or identifier of the temperature reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the temperature reading.
2. *number*: The temperature in degrees Celsius.
 - This argument shall contain the temperature in degrees Celsius.

2.2.85 TemperatureNoLongerCritical

Indicates that a temperature reading no longer exceeds an internal critical level but still exceeds an internal warning level.

- This message shall indicate that a temperature reading no longer violates an internal critical level but still violates an internal warning level. This message shall be used for temperature properties or `Sensor` resources that implement boolean trip points for a critical limit, such as from hardware mechanisms with no threshold value. The temperature properties or `Sensor` resources may contain readable thresholds that coexist with this

unspecified trip point.

Version Added: 1.0.0

Severity: Warning

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Temperature '<Arg1>' reading of <Arg2> degrees (C) no longer exceeds the critical level."

1. *string*: The name or identifier of the temperature reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the temperature reading.
2. *number*: The temperature in degrees Celsius.
 - This argument shall contain the temperature in degrees Celsius.

2.2.86 TemperatureNormal

Indicates that a temperature reading is now within normal operating range.

- This message shall indicate that a temperature reading has returned to its normal operating range.

Version Added: 1.0.0

Severity: OK

Resolution: None.

Message and Arguments: "Temperature '<Arg1>' reading of <Arg2> degrees (C) is within normal operating range."

1. *string*: The name or identifier of the temperature reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the temperature reading.
2. *number*: The temperature in degrees Celsius.
 - This argument shall contain the temperature in degrees Celsius.

2.2.87 TemperatureWarning

Indicates that a temperature reading exceeds an internal warning level.

- This message shall indicate that a temperature reading violates an internal warning level. This message shall be used for temperature properties or `Sensor` resources that implement boolean trip points for a caution limit, such as from hardware mechanisms with no threshold value. The temperature properties or `Sensor` resources may contain readable thresholds that coexist with this unspecified trip point.

Version Added: 1.0.0

Severity: Warning

Resolution: Check the condition of the resource listed in OriginOfCondition.

Message and Arguments: "Temperature '<Arg1>' reading of <Arg2> degrees (C) exceeds the warning level."

1. *string*: The name or identifier of the temperature reading.
 - This argument shall contain a string that identifies or describes the location or physical context of the temperature reading.
2. *number*: The temperature in degrees Celsius.
 - This argument shall contain the temperature in degrees Celsius.

2.3 Platform 1.2.0

This registry defines messages for compute platforms, covering topics related to processor, memory, and I/O device connectivity.

Message	Severity	Description
NVRAMClearAsserted	Warning	Indicates that the 'NVRAM Clear' jumper or switch is currently asserted.
OperatingSystemCrash	Critical	Indicates the operating system was halted due to a catastrophic error.
PlatformError	Warning	Indicates that a platform error occurred.
PlatformErrorAtLocation	Warning	Indicates that a platform error occurred and device or other location information is available.
PlatformRedundancyFailure	Warning	Indicates that a platform redundancy error occurred and additional information is available.
PlatformRedundancyNormal	OK	Indicates that the platform redundancy has returned to normal.
PlatformReset	Warning	Indicates that the platform reset.
PlatformWatchdogTimerReset	Warning	Indicates that the platform reset due to a watchdog action.
SecurityBypassAsserted	Warning	Indicates that the 'Security Bypass' jumper or switch is currently asserted.
UnhandledExceptionDetectedAfterReset	Critical	Indicates that an unhandled exception caused the platform to reset.

2.3.1 NVRAMClearAsserted

Indicates that the 'NVRAM Clear' jumper or switch is currently asserted.

- This message shall indicate that the 'NVRAM Clear' jumper or switch is currently asserted.

Version Added: 1.0.0

Severity: Warning

Resolution: Turn off the 'NVRAM Clear' jumper or switch.

Message and Arguments: "'NVRAM Clear' is currently on."

2.3.2 OperatingSystemCrash

Indicates the operating system was halted due to a catastrophic error.

- This message shall indicate that an unhandled exception caused a compute platform to crash or otherwise halt.

Version Added: 1.0.0

Severity: Critical

Resolution: Check additional diagnostic data if available.

Message and Arguments: "An operating system crash occurred."

2.3.3 PlatformError

Indicates that a platform error occurred.

- This message shall indicate that a platform error occurred.

Version Added: 1.0.0

Severity: Warning

Resolution: Check additional diagnostic data if available.

Message and Arguments: "A platform error occurred."

2.3.4 PlatformErrorAtLocation

Indicates that a platform error occurred and device or other location information is available.

- This message shall indicate that a platform error occurred with specific device identification information available.

Version Added: 1.0.0

Severity: Warning

Resolution: Check additional diagnostic data if available.

Message and Arguments: "A platform error occurred at location '<Arg1>'."

1. *string*: The device description or location where the error occurred.
 - This argument shall contain a description of the device or location where the error occurred.

2.3.5 PlatformRedundancyFailure

Indicates that a platform redundancy error occurred and additional information is available.

- This message shall indicate that a platform redundancy error occurred with specific additional information available.

Version Added: 1.0.0

Severity: Warning

Resolution: Check additional diagnostic data if available.

Message and Arguments: "A platform redundancy error occurred due to: '<Arg1>'."

1. *string*: The device description or location where the error occurred.
 - This argument shall contain a description of the device, additional detailed error information or location where the error occurred.

2.3.6 PlatformRedundancyNormal

Indicates that the platform redundancy has returned to normal.

- This message shall indicate that a platform redundancy error has cleared and returned to normal.

Version Added: 1.0.0

Severity: OK

Resolution: None.

Message and Arguments: "Platform redundancy restored."

2.3.7 PlatformReset

Indicates that the platform reset.

- This message shall indicate that a platform reset occurred.

Version Added: 1.0.0

Severity: Warning

Resolution: Check additional diagnostic data if available.

Message and Arguments: "A platform reset occurred."

2.3.8 PlatformWatchdogTimerReset

Indicates that the platform reset due to a watchdog action.

- This message shall indicate that a platform reset occurred due to a watchdog action.

Version Added: 1.0.0

Severity: Warning

Resolution: Check additional diagnostic data if available.

Message and Arguments: "A platform reset occurred due to watchdog timer action."

2.3.9 SecurityBypassAsserted

Indicates that the 'Security Bypass' jumper or switch is currently asserted.

- This message shall indicate that the 'Security Bypass' or 'Password Bypass' jumper or switch is currently asserted.

Version Added: 1.0.0

Severity: Warning

Resolution: Turn off the 'Security Bypass' jumper or switch.

Message and Arguments: "'Security Bypass' is currently on."

2.3.10 UnhandledExceptionDetectedAfterReset

Indicates that an unhandled exception caused the platform to reset.

- This message shall indicate that an unhandled exception caused a compute platform to reset. The exception was detected after the reset occurred.

Version Added: 1.0.0

Severity: Critical

Resolution: Check additional diagnostic data if available.

Message and Arguments: "An unhandled exception caused a platform reset."

3 ANNEX A (informative) Change log

Version	Date	Description
2024.4WIP90	2024-10-08	Document build from proposed additions to the AccountSecurity, Environmental, and Platform registries for DSP8011.
2024.3	2024-08-01	Document build from Redfish message registries in DSP8011 release 2024.3.
2024.1	2024-04-02	Document build from Redfish message registries in DSP8011 release 2024.1.
2023.3	2023-11-30	Document build from Redfish message registries in DSP8011 release 2023.3.
2023.2	2023-08-03	Document build from Redfish message registries in DSP8011 release 2023.2.
2023.1	2023-04-06	Document build from Redfish message registries in DSP8011 release 2023.1.
2022.3	2022-12-08	Document built from Redfish message registries in DSP8011 release 2022.3.
2022.2	2022-08-04	Document built from Redfish message registries in DSP8011 release 2022.2.
2022.1	2022-04-07	Document built from Redfish message registries in DSP8011 release 2022.1.