New Tests to Verify Redfish Service Conformance

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Announcement: Redfish Forum Charter Updates

- Recent charter update in the Redfish Forum expanded the scope of the group to maintain conformance test results
- The Redfish Forum is now allowed to publish a registry of certified products

Redfish Use Case Checkers

- Contains a set of tests to verify a service implements functional behaviors correctly for different resources

  - Performs common client workflows (use cases)

- Published to PyPI (The Python Package Index)

  - https://pypi.org/project/redfish-use-case-checkers/

- How to install:

```
> pip install redfish_use_case_checkers -U
```

Types of Testing

- Account management
  - Find existing users
  - Enable/modify/delete users
  - Verify new user credentials
- Power control
  - Find systems and reset support
  - Reset and verify system state
- Boot override
  - Find systems and boot override support
  - Configure boot override and reset systems

- Manager Ethernet interfaces
  - Find manager Ethernet interfaces
  - Verify presentation of arrays and IP addresses
- Query parameters
  - Find query parameter support
  - Perform $filter, $select, $expand, and only queries (on select resources)
  - Verify responses

Sample Usage

```
> rf_use_case_checkers -u root -p root -r https://192.168.1.100
Redfish Use Case Checkers, Version 2.0.5

Performing Account Management use cases...
-- Running the User Count test...
-- Running the Add User test...

<Other tests shown...>

Summary - PASS: 63, WARN: 1, FAIL: 13, NOT TESTED: 9
HTML Report: reports/RedfishUseCaseCheckersReport_09_06_2025_135953.html
Debug Log: reports/RedfishUseCaseCheckersDebug_09_06_2025_135953.log
```
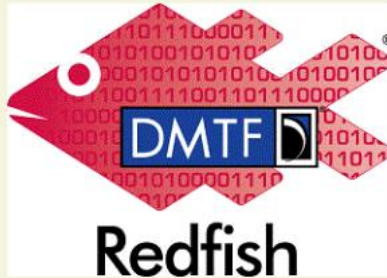
Sample Report

Redfish Use Case Checkers Test Report

https://github.com/DMTF/Redfish-Use-Case-Checkers

Tool Version: 2.0.5
Sat Sep 6 13:59:53 2025

This tool is provided and maintained by the DMTF. For feedback, please open issues in the tool's Github repository: https://github.com/DMTF/Redfish-Use-Case-Checkers/issues

System: https:/	, User: root, Password: ********
Product:	
Manufacturer: N/A, Model:	, Firmware version:

Results Summary
Pass: 63, Warning: 1, Fail: 13, Not tested: 9

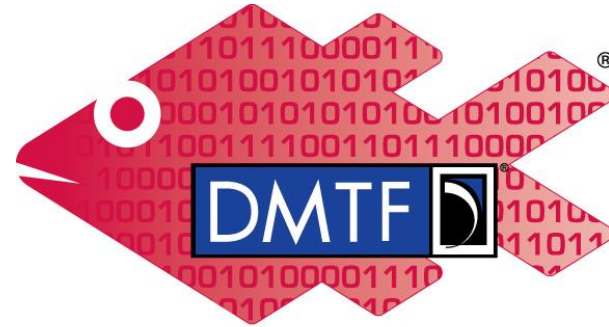| Account Management		
User Count: Verifies the user list is not empty Locates the ManagerAccountCollection resource and performs GET on all members.		
Operation	Result	Message
Counting the members of the account collection	PASS	
Add User: Verifies that a user can be added Performs a POST operation on the ManagerAccountCollection resource. Performs a GET on the new ManagerAccount resource and verifies the new user matches the specified criteria.		
Operation	Result	Message
Creating new user 'testuser0' as 'Administrator'	PASS	
Enable User: Verifies that a user can be enabled Performs a PATCH operation on the ManagerAccount resource to enable the new user. Performs a GET on the ManagerAccount resource and verifies the user account was enabled.		
Operation	Result	Message
Enabling user 'testuser0'	PASS	
Credential Check: Verifies the credentials of the new user are correctly enforced Creates a new Redfish session with the new user account. Attempts to read the members of the ManagerAccountCollection resource with the new session.		
Operation	Result	Message
Logging in as 'testuser0' with the correct password	PASS	
Logging in as 'testuser0', but with the incorrect password	PASS	

Call to Action

- Try the Redfish Use Case Checkers!

- Bugs, questions, feature requests?

  - File an issue on GitHub, or make a pull request

  - The Redfish Forum reviews issues and pull requests during meetings

- GitHub links

  - https://github.com/DMTF/Redfish-Use-Case-Checkers