

SECTION 1. CHANGES IN V1.4

Section 1.1. ABOUT THIS DOCUMENT

1.1.1. Purpose

This document provides a brief overview of the changes made between V1.3 and V1.4 of hub2, along with where further details of each change can be found within the updated functional specification, in addition to a listing of completed bug fixes and outstanding known issues.

Section 1.2. FIXED ISSUES

The following are a list of issues reported in previously releases that have been fixed in v1.4 of hub2.

1.2.1. Fixed Issues

Case	Title [sic]	Details
47682	'Drawing Type – Wrong Header'	The header on the Drawing Type Add and Edit page was corrected from "Activity" to "Drawing Type" .
47669	Import – data is updated via Simulate import	The Tag Sub System, Procedure System and various MOC columns were incorrectly updated via Simulated imports.
47667	Digital Document – Signed Off Data displayed under incorrect column in PDF	In rare circumstances, a Digital Document could be created in such a way that the Sign Offs would display in the wrong order. This has now been fixed and Sign Offs always appear under the correct header.
47087	Azure Redis Cache fails to reconnect automatically	Distributed caching is used as part of the hub2 solution to allow repeatedly accessed data to be retrieved more quickly. Automatic reconnection has been added to facilitate recovery should cache failure occur.
47747	Admin – Deleting Level A Aliases	When attempting to delete an Alias from the Level A admin screen, the screen does not update and the aliases are not deleted. This has now been fixed.
47727	Tagged Item – Incorrect Tag Type for new Tagged Items	When creating a new Tagged Item the Type could occasionally be set incorrectly. This has been corrected.

Section 1.3. KNOWN ISSUES

Section 1.4. A FULL LIST OF “KNOWN ISSUES” CAN BE FOUND AT [HTTPS://QEDI-GOTECHNOLOGY.GITHUB.IO/FEATURES](https://qedi-gotechnology.github.io/features)

The following functionality has been added in v1.4.

Items listed under **Technical** should have no impact on functionality and therefore are not described in this document.

The items under **Functional** change or add functionality to hub2; for each, a brief description is provided, along with details on where to find further information in the Functional Specification for this version.

Technical

- MVC Code Split out to allow reused in qedID
- Reports: Repeated Code
- Remove Punch List Items from Level D Service

Functional

- API: Additional Tables
- Home Screen – Graphical Dashboard
- Digital Documents: Table Bookmarks
- Digital Documents: Editable Header Fields
- Digital Documents: Step Mapping
- Piping Fields
- Custom Fields: Reporting
- Completion Grid

1.4.1.API

Full Details in Swagger API Specification, and supporting document

An API has been added to hub2 to allow data in Tagged Items, all Taggable Items, Tag ITR, Tag PWL, Tag Sub System, and Loop Tables to be Read, Created, Updated and Deleted. The details of the API endpoints are published in OpenAPI/Swagger format on each instance at the URI: /swagger/v1/swagger.json, and in a user-friendly format at /swagger. While Swagger provides most of the functional documentation, an additional document will be available for end-users to explain how to authenticate with the API and perform basic queries.

1.4.2.Home Screen – Graphical Dashboard

Full Details in Section 8: Home Screen



Figure 1. Screenshot of the Front Page Graphical Dashboard

A front page Graphical Dashboard has been added which displays:

- Handover (by Type) Progress Arcs
- Tag ITR (by Class) Progress Arcs
- Punch List Item (by Category) Progress Arcs
- MOC (by Type) Open/Closed Arcs
- Key Handover (selectable by Administrator) Condensed Skyline
- Key Handover (selectable by Administrator) Planned vs Actual S- Curve

1.4.3.Digital Documents: Table Bookmarks

Full Details in Section 34.4.1.1.b: Certification Output – Header Table Section

Preview:

Tag Drawings		
Drawing	Description	Area
Drawing Name	Drawing Description	Drawing Area Name

Actions	Label	Bookmark
✕ Remove	Tag Drawings	Tag Drawings

Action	Label	Bookmark
✕ Remove	Drawing	Drawing Name
✕ Remove	Description	Drawing Description
✕ Remove	Area	Drawing Area Name

[+ Add Columns](#)

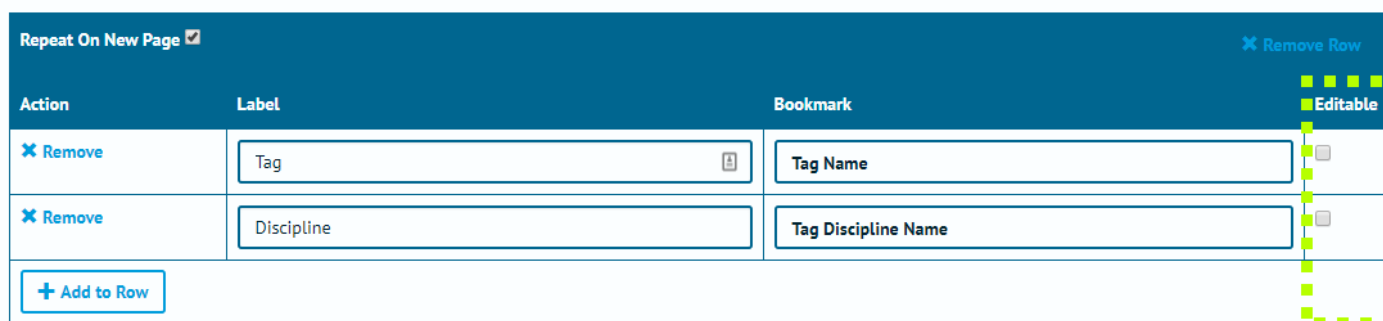
[+ Add New Table](#)

Figure 2. Screenshot showing the new Table Bookmarks Section of Digital Documents

The Table Bookmarks introduced in v1.3 have been extended to work with Digital Documents and can be added via an additional section on the creation screen. This is accomplished by first selecting the table to display and then setting up each column with the information required.

1.4.4.Digital Documents: Editable Header Fields

Full Details in Section 34.4.1.1.a: Certification Output – Header Section & Section 34.4.4: Certification Output – Document Task Link Add Edit



Action	Label	Bookmark	Editable
✕ Remove	<input type="text" value="Tag"/>	<input type="text" value="Tag Name"/>	<input type="checkbox"/>
✕ Remove	<input type="text" value="Discipline"/>	<input type="text" value="Tag Discipline Name"/>	<input type="checkbox"/>

[+ Add to Row](#)

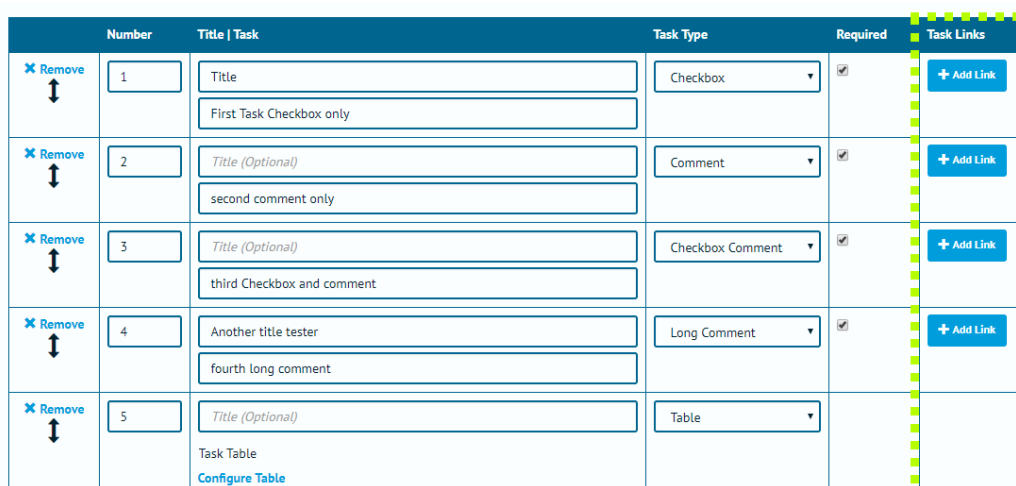
Figure 3. Screenshot with new Editable Checkbox Highlighted.

Along with displaying information from within hub2, it is now possible to populate the headers of Digital Document with editable fields in which information can be entered directly. This is useful for Header information which may not be available at the time the Document is generated.

It is **important** to note that, at this stage, any information entered will be stored directly on the Digital Document and **not** imported into hub2 itself.

1.4.5.Digital Documents: Step Mapping

Full Details in Section: 34.4.1.1.c – Certification Output – Task Section



	Number	Title Task	Task Type	Required	Task Links
✕ Remove ↑ ↓	1	<input type="text" value="Title"/> <input type="text" value="First Task Checkbox only"/>	Checkbox	<input checked="" type="checkbox"/>	+ Add Link
✕ Remove ↑ ↓	2	<input type="text" value="Title (Optional)"/> <input type="text" value="second comment only"/>	Comment	<input checked="" type="checkbox"/>	+ Add Link
✕ Remove ↑ ↓	3	<input type="text" value="Title (Optional)"/> <input type="text" value="third Checkbox and comment"/>	Checkbox Comment	<input checked="" type="checkbox"/>	+ Add Link
✕ Remove ↑ ↓	4	<input type="text" value="Another title tester"/> <input type="text" value="fourth long comment"/>	Long Comment	<input checked="" type="checkbox"/>	+ Add Link
✕ Remove ↑ ↓	5	<input type="text" value="Title (Optional)"/> Task Table Configure Table	Table	<input type="checkbox"/>	

Figure 4. Screenshot highlighting the Task Links Button on the Digital Document Edit Page

In the Digital Document Task section, it is now possible to add Task Links. A Task Link has a Source Task and a Target Task, which will be on different Digital Documents. If both Digital Documents are assigned to a Tag within the same

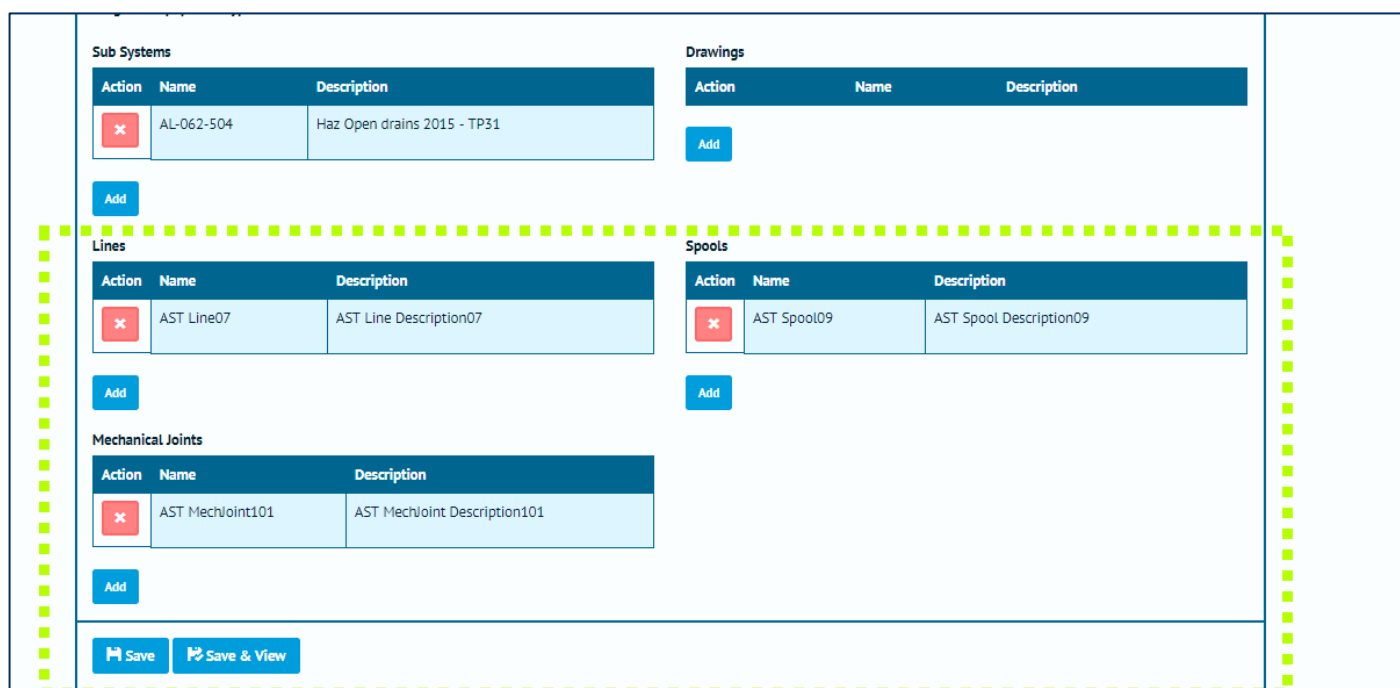
Level E then when the Source Task is completed the Target Task will be auto populated with the same Task Result answers.

This allows the completion of one element of a document to count towards the completion of another, and can reduce any rework that is identified as unnecessary in completing multiple documents.

1.4.6.Piping Fields

Full Details in Section 27: Piping

Entity Description in: Section 27.3.2 – Test Pack Line, Section 27.3.3 – Test Pack Mechanical Joint and Section 27.3.4 – Test Pack Spool



The screenshot displays the Test Pack Edit Page with the following sections:

- Sub Systems:** A table with columns Action, Name, and Description. It contains one entry: AL-062-504, Haz Open drains 2015 - TP31. An 'Add' button is below the table.
- Drawings:** A table with columns Action, Name, and Description. It is empty. An 'Add' button is below the table.
- Lines:** A table with columns Action, Name, and Description. It contains one entry: AST Line07, AST Line Description07. An 'Add' button is below the table.
- Spools:** A table with columns Action, Name, and Description. It contains one entry: AST Spool09, AST Spool Description09. An 'Add' button is below the table.
- Mechanical Joints:** A table with columns Action, Name, and Description. It contains one entry: AST MechJoint101, AST MechJoint Description101. An 'Add' button is below the table.

At the bottom of the form are two buttons: 'Save' and 'Save & View'.

Figure 5. Screenshot highlighting the Lines, Spools and Mechanical Joints on the Test Pack Edit Page

The Test Pack section has been extended with the ability to add information on the Spools, Lines and Mechanical Joints associated with the Test Pack. This information is also now available as Table Bookmarks for both the Digital Documents and the DOTX Templates.

1.4.7.Custom Fields: Reporting

Full Details in Section 39.4.3 – Reporting – Available Fields

The Custom Fields which can be added to Tagged Items and all Tag Extensions can now be added (and searched for) on both Detailed and Summary reports created by users.

1.4.8.Completion Grid

Full Details in Section 40: Completions Grid

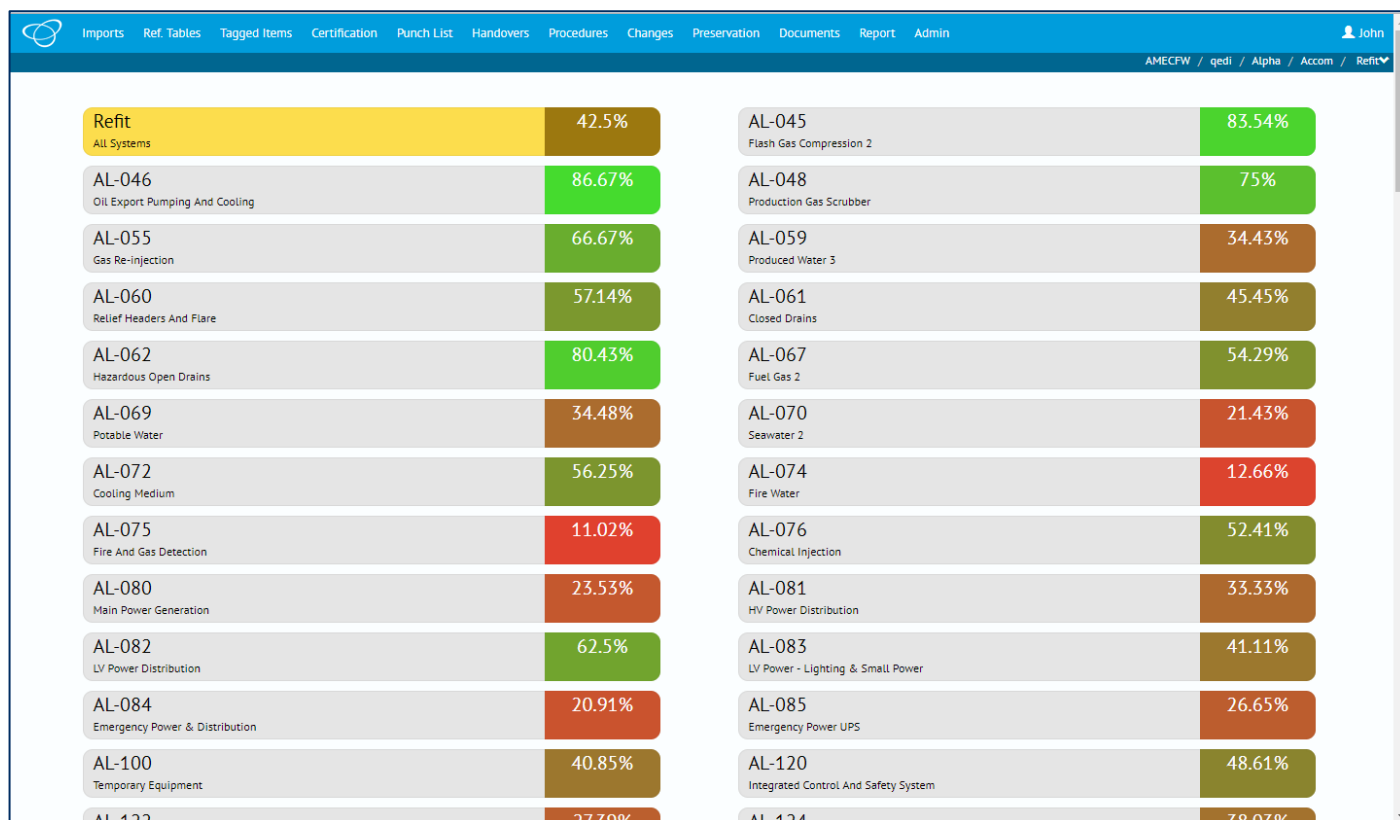


Figure 6. Screenshot of the Completions Grid, showing a list of all Systems

A new Graphical Report known as the Completion Grid has been added to hub2.

When viewed the report shows the ITR progress as a percentage for each System.

The report is interactive; clicking on any of the Systems will show the progress of each Sub System under that System.

Clicking on any Sub System will then bring up a screen showing the progress of the ITRs, Punch List, MOCs and Handovers for that Sub System, with tabs to get all lists of all the Tag ITRs, Punch Lists and MOCs associated with the selected Sub System.