

GoTechnology[®]

hub2

User Guide

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1. HELP!! What order do I load the data in? What does this table do?

Section 1.1. Load Order and Glossary

For information on the order to load information, and a description of each table, check the GoTechnology hub2 data dictionary at <https://gotechnology.github.io/dd>

Section 1.2. Revisiting your Training

To revisit your training just click on the eLearning link underneath the "?" at the top right of the screen.

Section 1.3. Misc. Recommendations

It's recommended that Imports are kept at 20,000 rows or less per file for performance reasons.

2. About

2.1.1. Introduction

This user guide describes an introduction or reference guide for some of the more complex features of GoTechnology hub2; Wood's next generation completions and commissioning management solution.

The document contains screen shots and information that were relevant at the time of release. As GoTechnology hub2 is a continuously developed product the actual appearance or function may differ from what is depicted.

In addition, some sections or operations shown may not be accessible due to permissions issues.

For the latest information on GoTechnology please visit <http://qed-gotechnology.github.io> or contact commissioning.info@woodplc.com

2.1.2. Intended Audience

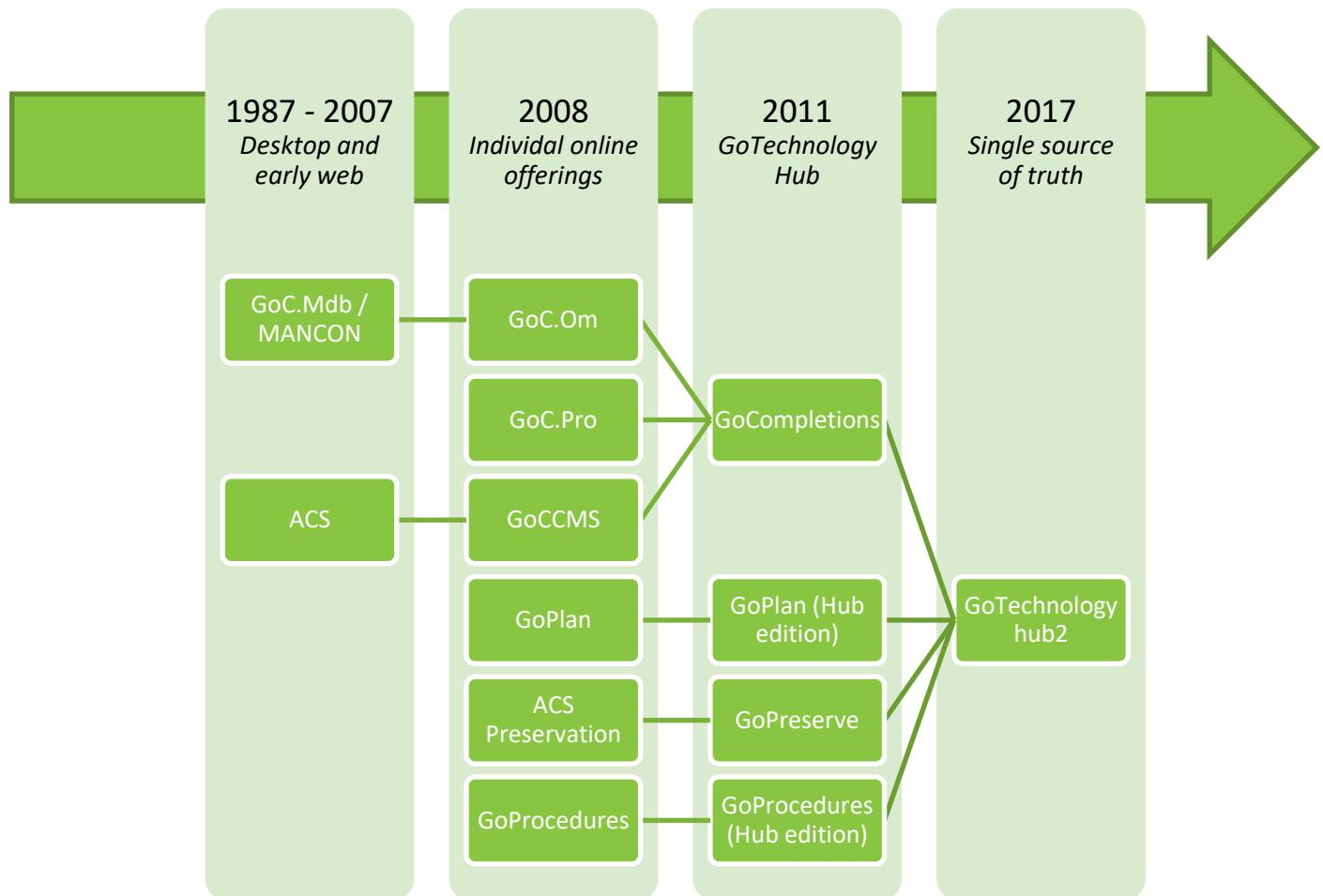
It's expected that readers will have completed the required training courses, and understand the fundamental concepts and basic operations, before reading this document.

This guide is intended for authorised users only and should not be distributed without the express consent of Wood.

2.1.3. GoTechnology hub2

First released in October 2017, hub2 is the latest generation of Wood's GoTechnology family of online, web-accessible completions and commissioning management solutions.

Intended as a replacement for all previous products within the range, hub2 delivers the facilities to track, record and report on details of equipment, certification, handovers, procedures, preservation routines and Job Card information, amongst others.



2.1.3.1. Access

Details of how to access GoTechnology hub2 will be provided separately. Please note: As hub2 is a primarily online solution, an internet connection and a modern, HTML5 compliant web browser are required.

2.1.4. Glossary of Terms / Listing of Information

At the end of this document is an abbreviated list of the information stored within hub2, where it can be viewed from, and which Level within the information hierarchy (described in 4 Levels below) it resides.

Important Note: This is not a complete listing and is intended for basic reference purposes to the most commonly used areas of GoTechnology hub2. Client, industry or process specific information types will be excluded for this reason.

3. UI

Let's take a look at the User Interface (or UI) for hub2. This is the "look and feel" of the application: How information is displayed onscreen and how you interact with it.

The screenshot shows the 'Tagged Item Search' page. At the top, there are navigation links: Imports, Ref. Tables, Tagged Items, Certification, Punch List, Handovers, Procedures, Changes, Preservation, Documents, Report, Admin, and a user profile for 'Josh'. Below the header is a search bar with 'Recent Searches' and 'Saved Searches' dropdowns. The main search area contains fields for Name, Discipline, System, Tag ITRs Primary Handover, Sub System Phase, Description, Equipment Type, Sub System, Tag ITRs Secondary Handover Number, and Sub System Priority. Each field has a search icon. Below these fields is a 'Show Additional Filters' button. At the bottom of the search area are three buttons: 'Search', 'Clear', and 'Save Search'. The results section displays a table with two rows of data:

Name	Description	Discipline	Tag Type	Sub System(s)	Tag ITR(s)
01-TP-003	Pipeline flushing	P	Tag	AL-045-501, AL-045-502	QED-A06A, QED-A09A, QED-A06A, QED-A01A, PTP, QED-A03A, QED-A02A2
076-E3979	Hydrochloric Cooling Valve	E	Tag	AL-070-504	QED-I31A, QED-E34A, QED-I31A, QED-A01A, QED-A02A2

Depending on which version of hub2, your preferences, permissions and configuration, and the device you're viewing on, some elements may appear differently, or not at all.

If we apply some highlighting to some different elements on this screen we can cover a lot of the basic concepts within hub2, which follow all the way through the application.

Tagged Item Search

Recent Searches ▾ Saved Searches ▾

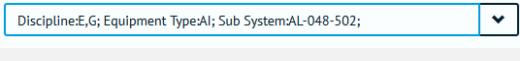
Q Search C Clear S Save Search

Name	Description	Discipline	Equipment Type	System	Sub System	Tag ITRs Primary Handover	Tag ITRs Secondary Handover Number	Sub System Phase	Sub System Priority
01-TP-003	Pipeline flushing	P	Tag	AL-045-501, AL-045-502	QED-A06A, QED-A09A, QED-A06A, QED-A01A, PTP, QED-A03A, QED-A02A2				
076-E3979	Hydrochloric Cooling Valve	E	Tag	AL-070-504	QED-I31A, QED-E34A, QED-I31A, QED-A01A, QED-				

Show Additional Filters □

Q Search C Clear S Save Search

Colour	Location	Element	Description
	Top of screen (menu bar)	Procedures	<p>The top menu buttons are the key to navigating hub2. Clicking one of these buttons will open a drop-down menu with links to specific pages.</p> <p>This includes the button at the top right, which displays your name (or the name of whoever is currently logged in) and provides links to User preferences and options.</p>
	Top Right	Demo Site / qed / Alpha / Accom	The navigation "breadcrumbs" show which Level A / Level B / Level C / Level D you're currently logged in to. Click any of these elements will take you back to the Level select screen.

	Top Right		The final breadcrumb element represents the Level E. Clicking this will provide a drop-down of other Level E's within this Level D, allowing you to quickly switch between them.
	Search Header		A drop-down menu that provides the five most recent searches you've run, allowing you to re-run them easily.
			Lists any "Saved Searches" you have created via the "Save Search" button.
	Various locations, throughout hub2		Buttons within hub2 have many purposes but are mainly used to trigger an action, whether it's to start a search or import, add or delete an item, or, in the case of the button shown to the left, clear all the values from a form.
	Near the top of the search form		The quick search bar can be used to enter multiple search fields in one place. In addition, the drop-down arrow, when clicked, provides a list of field definitions.
	Various locations, throughout hub2		Input fields can be used to enter search terms or add data. This can be either typed directly, or in the case of dates, selected from a date picker.
			For "lookup" fields, the magnifying glass button on the right can be clicked to open a popup containing all the possible values that can be selected.

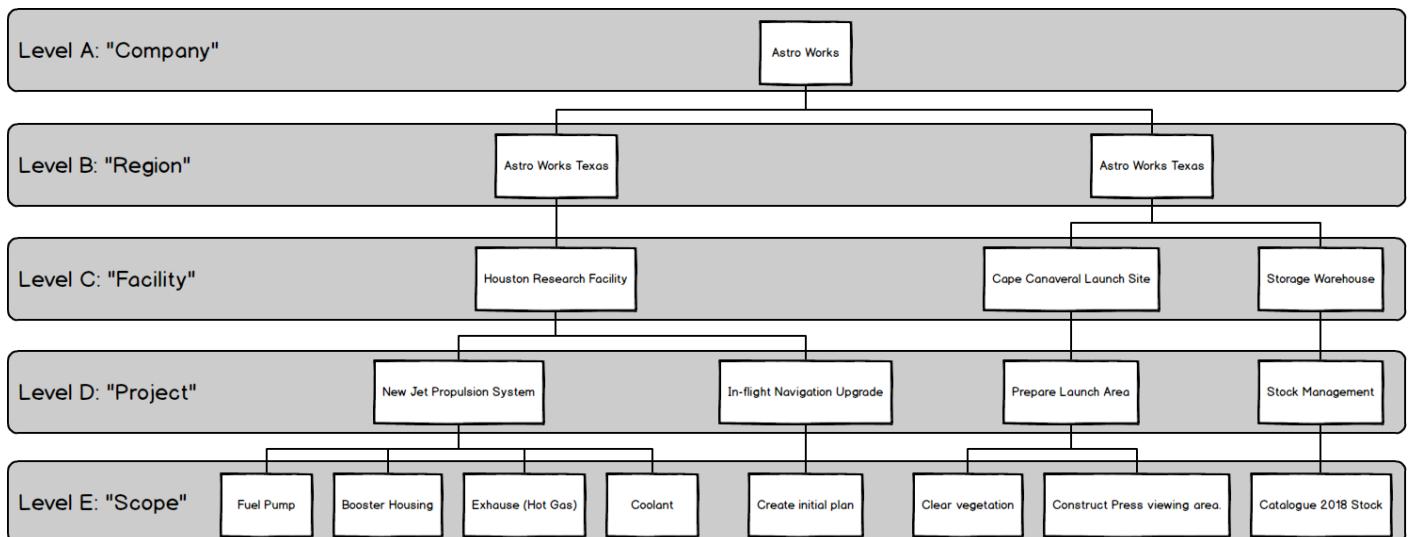
		Alternatively, a value can be typed in directly as normal.
	Name 	Fields which are "Required" have the word <i>Required</i> shown when they are empty.
	Discipline 	When a field is Required it means that it won't be possible to add a new record if those fields are blank or contain invalid information (and hub2 will tell you if the information is invalid).

4. Levels

Within hub2 project information is stored in five connected levels. This might seem like a more complex approach than you're used to before, but once we've explained it, you'll understand how it's easy to use, and will save time and improve consistency of data. Within the structure, inheritance is used: Information defined in the first level flows through to the second, third, fourth and fifth levels, information in the second flows through to the third, fourth and fifth level, and so on.

Within this document, we will refer to these levels as Level A, Level B, Level C, Level D and Level E, however they can be renamed by yourself or your hub2 administrator to use names that are much more relevant to your project or industry.

Here's an example of how an instance of hub2 might be laid out. Don't worry too much about the details at this stage, we'll go into those later!



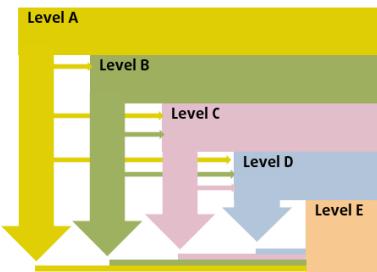
As you can see, in the above picture we have a fictional company named "Astro Works", and a data structure that's been designed in hub2 to best support their operations. This structure will allow the Astro Works teams to share the information they need, while making it clear who is working on what, and ensuring that any information is only available to the appropriate persons.

So how do we build up a structure like that, and what do these levels really represent? We'll get into that in a second, but before we do, an important point.

An Important Point about Levels

You (or your hub2 administrator) can change your Level configuration whenever you need to, so don't worry about having to get it right first time.

If you'd like some advice on Level configuration, just get in touch. We're here to help!



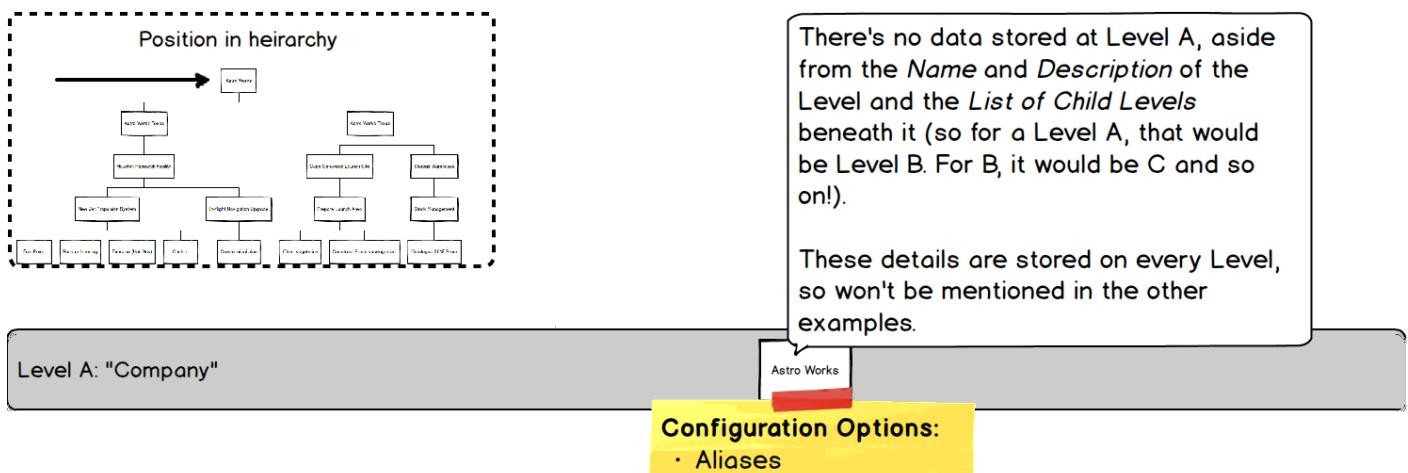
Section 4.1. Thinking about Levels

When it comes time to build up our data within hub2, we start at the "top" of the data hierarchy (Level A) and work our way down from there.

4.1.1. Level A

As we know, Level A represents the "Company", "Corporate" or "Global" level. It contains configuration options that will be utilised **in every part of the world, in every industry, on every project and work scope** the company does... Or at least that's the idea! Of course, in reality this may not be practical, but we'll discuss that later.

For now, let's assume that there's just one item in Level A representing the whole company. In our example case, that is Astro Works, our fictional space exploration organisation.



There's no data stored at this level, but there are some options:

- Aliases

Aliases allow us to "rename" certain items on screen. As we've mentioned these can include the Levels themselves, as well as other items such as Certification Grouping. When we set an Alias for any field then the default name is replaced by the alias we've chosen.

Imports Ref. Tables Tagged Items Certification Punch List Handovers Procedures Changes Preservation Documents Report Admin

Level A : Demo Site

Name: Demo Site

Description: Demo Site

Disabled [Add Alias](#)

Save Save & View

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In the above screenshot, the orange highlight shows that there are no Alias at present, just the "Add Alias" button. The purple highlight shows that the default "Level A" to "Level E" are shown.

Let's rename those to some more friendly values.

Imports Ref. Tables Tagged Items Certification Punch List Handovers Procedures Changes Preservation Documents Report Admin Josh

Company : Demo Site

Name: Demo Site

Description: Demo Site

Disabled

Level A Alias: Company

Level C Alias: Facility

Level E Alias: Scope

Level B Alias: Region

Level D Alias: Project

[Add Alias](#)

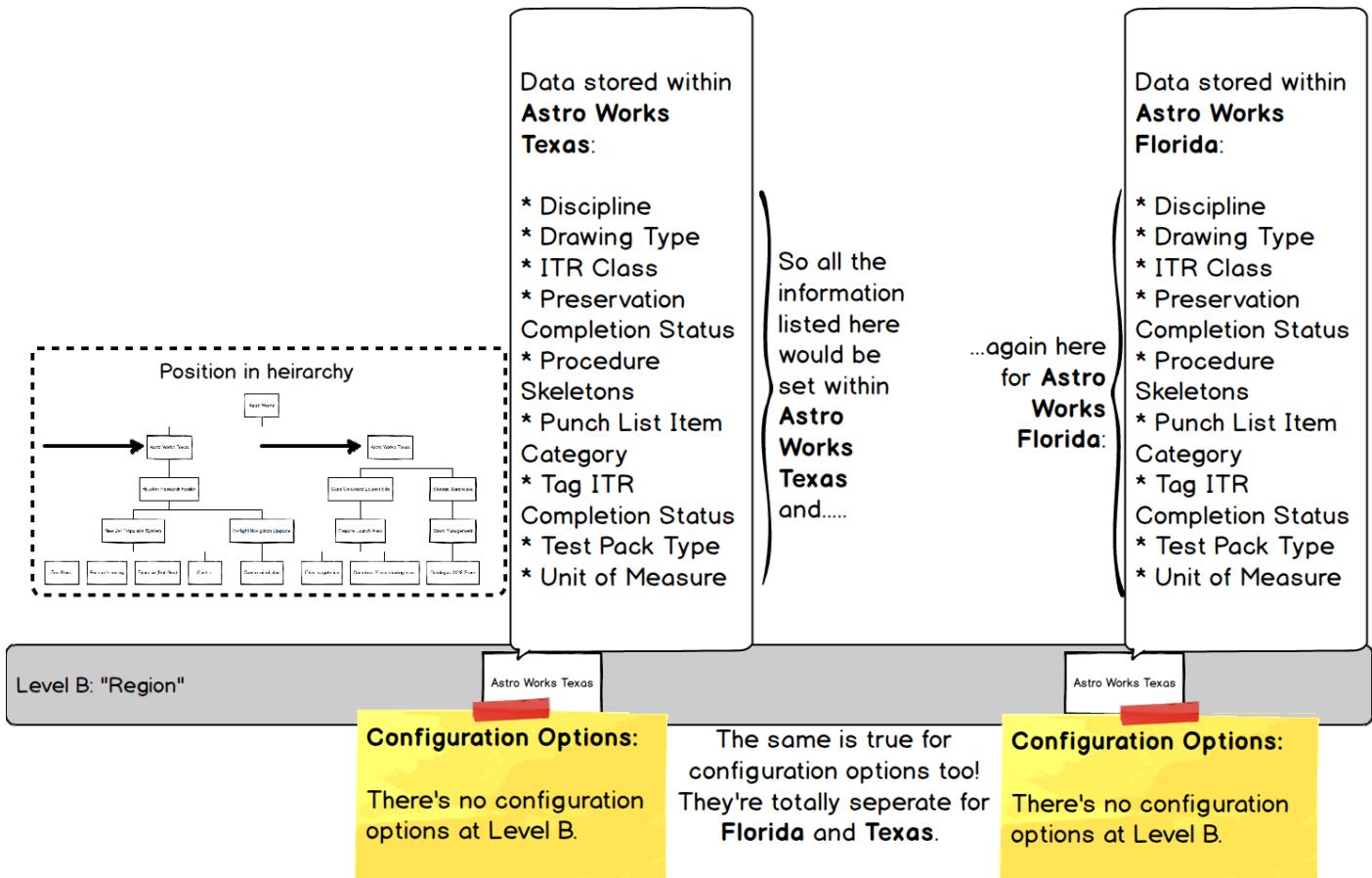
Save Save & View

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Once we save we can see the menu has updated too.

4.1.2. Level B

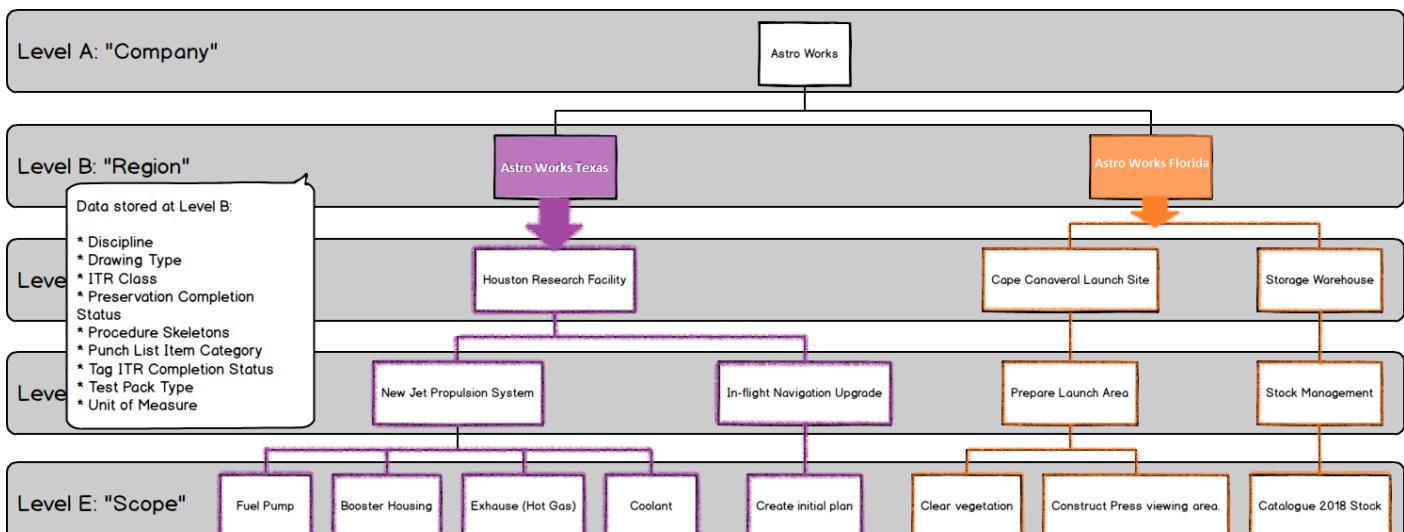
Level B represents the first sub-division of the structure and is the first place we can actually store data. It's usually used to represent a region, division or industry sector.



4.1.2.1. Information at Level B

The kind of information we store at this Level is very high level

Remember, any information set here will be used by the associated levels below:



In the above picture we can see our two Level B's (which we're calling "Regions") **Astro Works Texas** and **Astro Works Florida**, containing different information (which is shown by having one in purple and one in orange).

The solid colour indicates where the information is set, with the outlining showing where the information is used or referenced from.

As you would expect from our previous explanations, Levels below, reference the information defined in those above (by now we're hoping this is becoming painfully obvious, and even repetitive, to you).

4.1.3. Level C

Level C is usually used to represent a physical construction or geographic area in which multiple projects (which themselves have multiple scopes of work) are being (or will be) executed.

As such it contains a large amount of data, as well as a few key configuration options:

- Preservation Progress Method
- Preservation Window Before
- Preservation Window After

These are described in more detail, and in context, in 9 Preservation.

Let's go back to our diagram and take a look at Level C in more detail

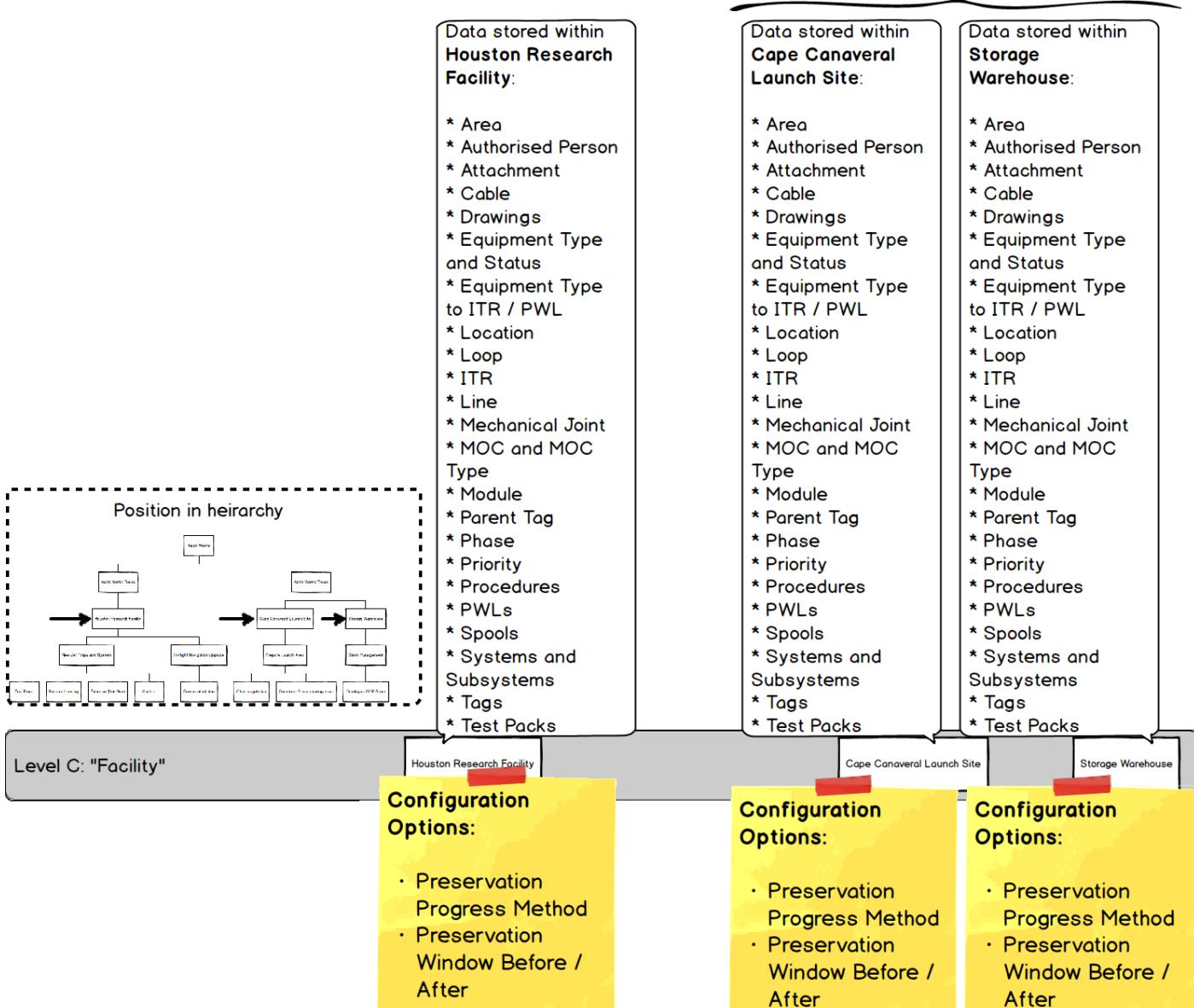
Again, we can see here that each "Facility" has its own set of data.

The types of data (e.g., Area, Authorised Person, Attachment, Cable, and so on) stored at this Level stay the same, but the *data itself* can be different for each "Facility"...

...this means if we created Cape Canaveral Launch Site (which is a child of the **Astro Works Florida** Level B "Region"), the ITR list would be empty until we added ITRs to it. However, the ITR Class would already be populated, as that is defined at Level B (which we have named "Region")

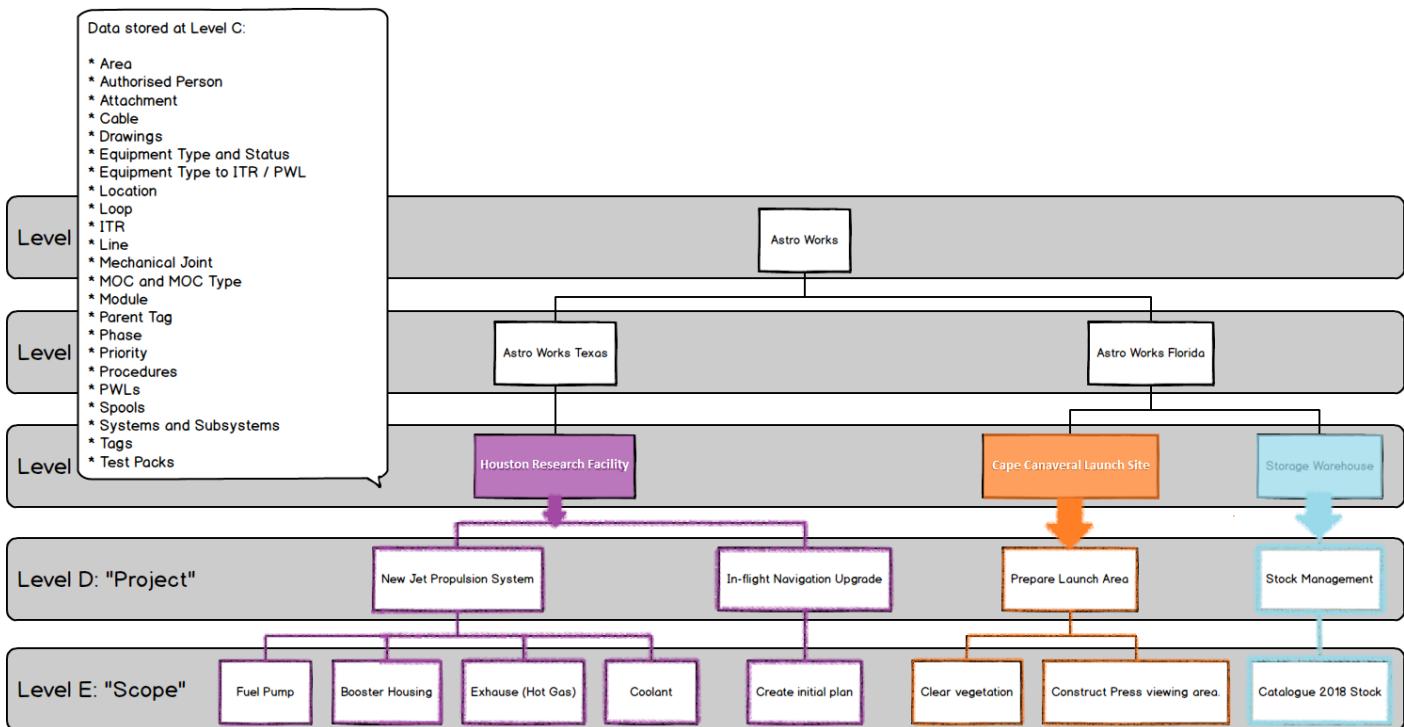
If we then created the Level C for Storage Warehouse, its ITR list would be empty, until we added ITRs there too. However, as it is also a child of **Astro Works Florida**, it would share the same ITR Class list as **Cape Canaveral Launch Site**.

This is because there isn no transfer of data *between* levels (they're totally separate), only the ability for child Levels to reference the information in the parent.



And again, each Level C (which we're calling "Facility") can have different settings for the

Just to repeat our previous point once more, the information set at Level C, will be utilised by the levels below:



4.1.4. Level D

Level D is the “Project” level, and represents a grouping of work scopes (which are recorded at Level E). As such, there’s not too much data stored here and, aside from the logos which appear on reports and certification, only one setting:

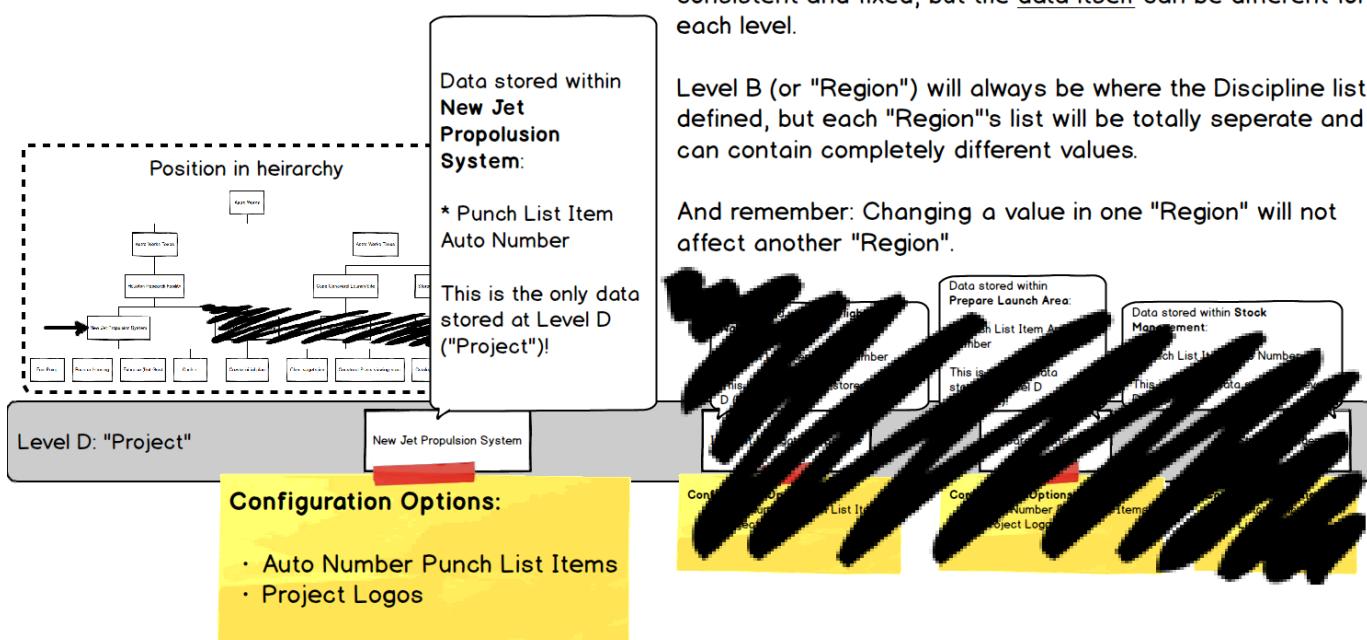
- Punch List Item Auto Number – Set whether Punch List numbers are generated automatically, and any conventions/formats for that number.

We're going to stop showing the same repeated information now, because you get the idea:

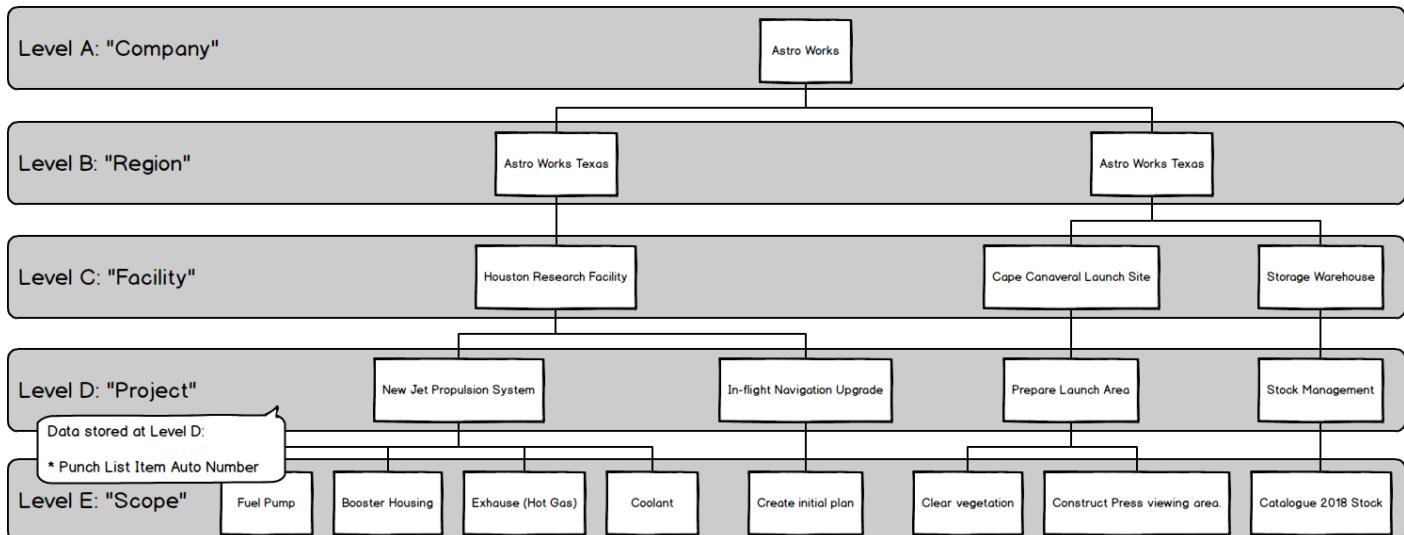
The type of data and Configuration Options for a Level is consistent and fixed, but the data itself can be different for each level.

Level B (or "Region") will always be where the Discipline list is defined, but each "Region"'s list will be totally separate and can contain completely different values.

And remember: Changing a value in one "Region" will not affect another "Region".



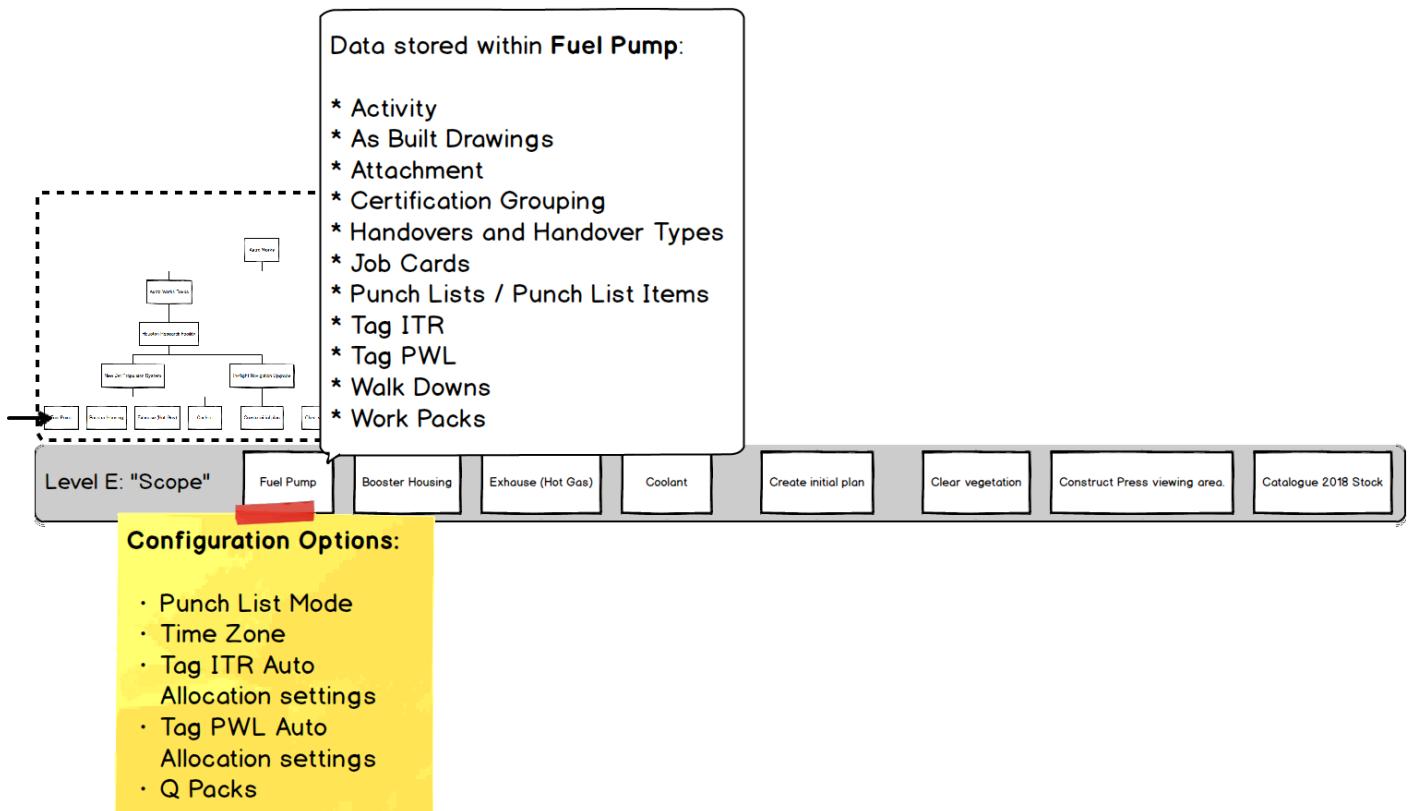
As we know, the information at a higher Level is referenced by those beneath it. This time we'll show the structure without highlighting. Can you imagine which Level E's inherit from where?



We're sure you figured it out – it's just a case of tracing the lines.

4.1.5. Level E

Level E represents the scope of work – it's where sign-offs are stored and progress is recorded.



Level E is the lowest level, so any of our Level E's (or "Scopes" as we've aliased them) won't affect anything other than themselves.

5. Permissions

Certain standard levels are provided in GoTechnology hub2, however we can also create Custom Permissions for you too.

Section 5.1. Standard User Levels

The following Standard User Levels are available within GoTechnology hub2:

NOTE: It is possible for you or your focal point to restrict sign-off by discipline (for example a Commissioning Tech that can only sign off Electrical Tag ITRs)

	Can Add:	Can Edit:	Can Delete:	Can Sign-off:	Special abilities:
Admin	All	All	All	All	Custom Fields Digital Document Templates Enter any name against Sign-Off Import
Commissioning Engineer	Attachments Procedures Punch Lists Tag ITRs	Procedures Tag ITRs	Procedures Tag ITRs	All	Custom Fields Digital Document Templates Import
Commissioning Technician	Attachments Punch Lists	None	None	Job Cards MOC Procedures Punch Lists Tag ITRs Tag PWLs Work Packs	
Completions Engineer	All	All	All	All	Custom Fields Digital Document Templates Import
Management	Attachments	None	None	All	
Operations Supervisor	Attachments Handovers Tags	Handovers Tags	Handovers Tags	All	
Project Engineer	None	None	None	MOC	

				Procedures Punch Lists Work Packs	
Read Only	None	None	None	None	
Supervisor	Punch Lists	None	None	All	
TA	Attachments Punch Lists	None	None	All	
Technician	Attachments Punch Lists	None	None	Job Cards Punch Lists Tag ITRs Tag PWLs Work Packs	
Work Pack Engineer	Punch Lists Tags Tag ITRs Work Packs	Tags Tag ITRs Work Packs	Tags Tag ITRs Work Packs	All	

Section 5.2. Custom User Levels

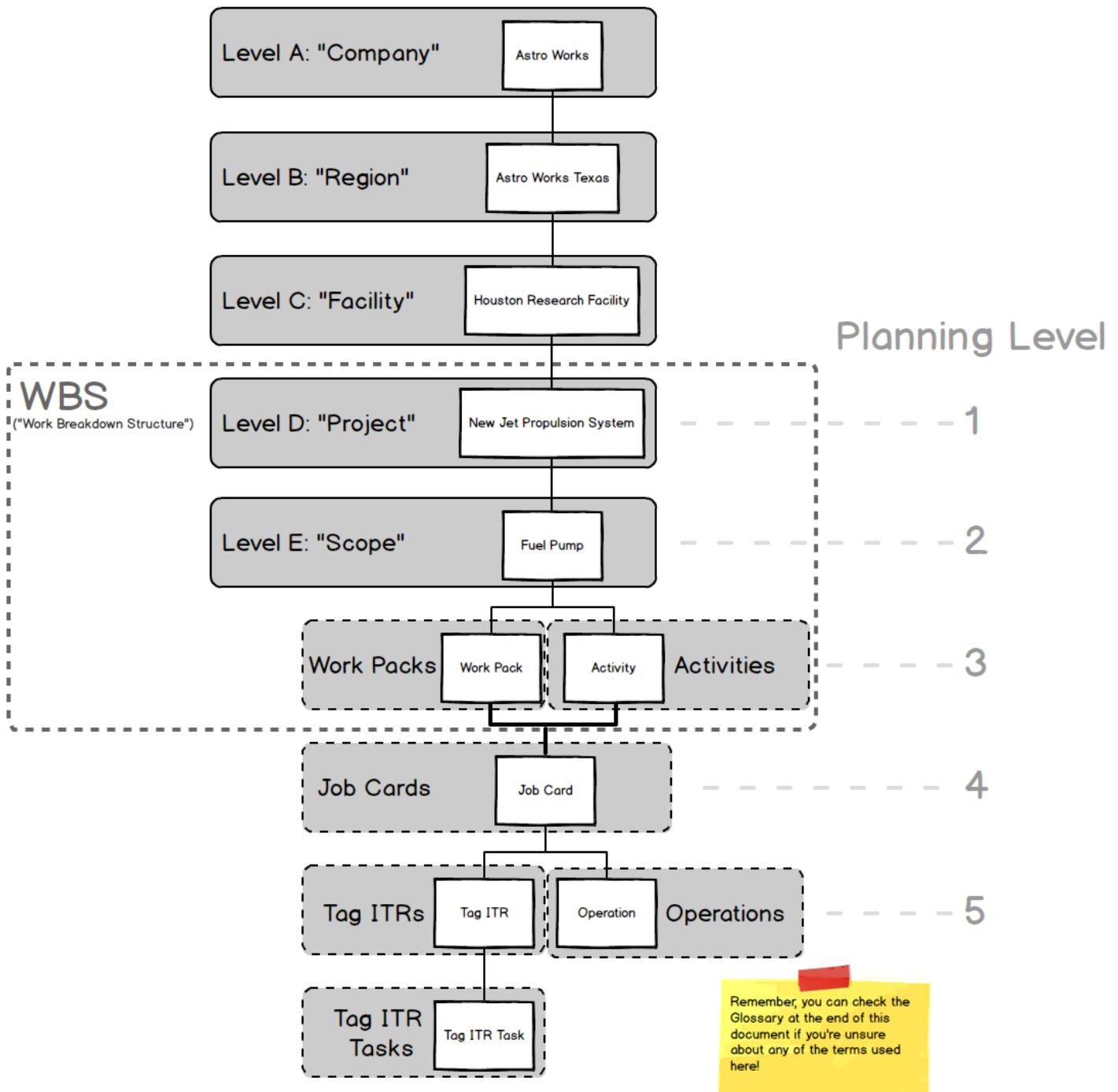
Permissions within GoTechnology hub2 have a high level of flexibility: Authorisation can be fine-tuned for almost every table, to specify if a User can Add, Update, Delete or even see it at all. There are also additional special permissions for certain tables, such as the ability to sign-off Tag ITRs or Tag PWLs.

If any customisation to roles or permissions are required, just ask!

6. Beyond Levels: The Extended Logical Structure of hub2

Now we know all about Levels, what's stored there and how we can set up the right permissions, but what happens when we go **deeper**? How is information within a Level E structured to allow us to assign, progress and track Completions and Commissioning execution? The answer can be seen by delving into the "Scope" level and looking at what we call the "Extended Logical Structure":

GoTechnology hub2 Extended Logical Structure



While this might seem complicated, the main principles are quite simple:

- We're already familiar with Level A to E and what they represent.
- Work Packs and Activities are the next subdivision of data. Work Packs represent the physical documentation and Activities represent the effort involved in completing the work.
- When a Project is planned a Work Breakdown Structure is created, decomposing the overall Project (Level D in hub2 and Level 1 in most planning approaches) into two further levels: Scopes of Work (Level E in hub2, Level 2 in planning) and Work Pack or Activity (in hub2 we track both)
- Beneath this, comes Job Cards which represent both physical documentation **and** a planning activity
- After this comes Tag ITRs (documentation) and Operations (planning activity)
- Finally we go a level beyond what a project plan would reasonably expect to capture, to the actual Task level of the Tag ITRs.

As you can see, hub2 captures quite a depth of information, allowing the status of entire facilities to be accurate down to the individual checkboxes being completed on a Tag ITR.

You can probably also see why we used A to E as the "behind the scenes" names of our Levels (and remember, you or your hub2 administrator can adjust the terminology to be relevant and easy to understand for your company) instead of 1 to 5.

7. Populating Data

Once permissions and levels are in place it's time to start adding data. Depending on what level (and permissions) you have access to, as well as the way hub2 is set up for your company or project, the actual specifics of what you can and can't change may vary, but we can cover the basic concepts involved.

There's two ways to populate:

- On-Screen: Best for individual changes.
- Imports: Best for multiple changes

Section 7.1. Populating Reference Tables On-Screen

Reference Tables are the building blocks of hub2. Normally the information contained within the Reference Tables is simple, perhaps just a Name and a Description, but they exist to provide a library that the more complex elements can draw from, increasing consistency of data and reducing rework.

To make it easy to find the Reference Tables, they have their own tab on the top menu, and are listed second from the left, just after the Imports:



If you have a look, you'll see there's quite a lot of them, however we don't need to populate them all at the same time (or ever if they're not required!) only the ones that we know, or that we need to move forward and set up the more complex entities.

As an example, let's look at what Reference Tables we need to add our first Tag.

Tags have a lot of fields, but only a few of them are **Required**.

For Tags the standard required fields (as of the time of writing – things do change!) are:

- Name
- Discipline
- Description
- Equipment Type
- Subsystem

And of those, Name and Description are not Reference Tables. Remember, as we described in the UI chapter, we can tell which fields are Required, and which are Reference Tables just by looking at the fields themselves:

Imports Ref Tables Tagged Items Certification Punch List Handovers Procedures Changes Preservation Documents Report Admin

Demo Site / Support Test Level B / Support Test Level C / Support Test Level D / Support Test Level E

Tag:

Name **Required** **Discipline** **Required**

Description **Required**

Equipment Type **Required** **Source Drawing**

Equipment Status **Required** **Location**

Area **Required** **Module**

Parent Tag

Loop **Required** **Loop Element**

Serial Number **Required** **Manufacturer**

Comments

Is Validated
 Is Safety Critical Element
 Ignore Equipment Type To ITR
 Ignore Equipment Type To PWL
 Is Ex Rated

Sub Systems

Action	Name	Description
Required		
Add		

Drawings

Action	Name	Description
Add		

Required fields have the word "*Required*" inside the text box when they are empty:

Name

Required

Reference Tables have a blue magnifying glass button at the right-hand side:

Discipline

Required 

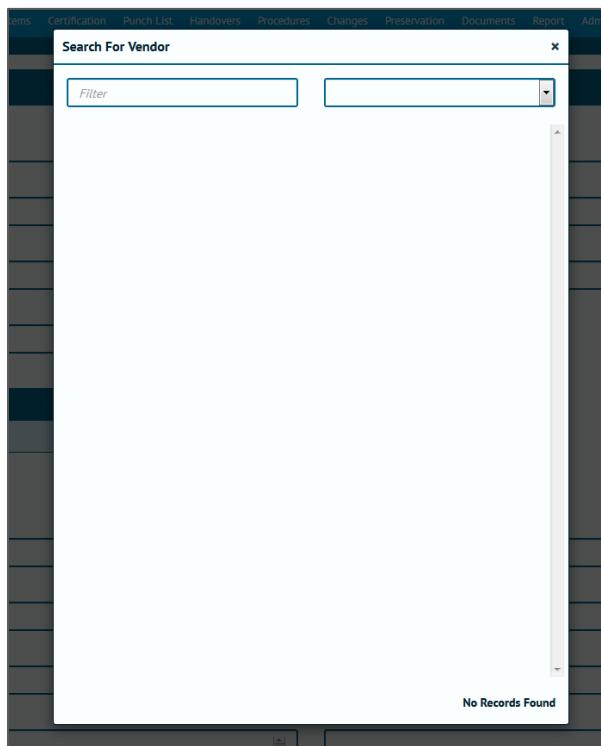
Clicking on this button will open a pop-up window, from which you can select the information you want, just by clicking on it:

Search for Discipline	
Filter	Name
A	Architectural
B	Buildings
C	Civil
D	Drilling
E	Electrical
F	Plumbing
G	Fire and Gas
H	Safety
I	HVAC
J	Instrumentation
K	Lifeboat
L	Mechanical
M	Piping
N	Insulation
19 Rows Loaded	

In some pop-up windows (such as Subsystems) you can choose multiple values. In that case you click on the rows you want **then** click the add button:

Search for Sub System	
Filter	Name
AL-045-501	Flash Gas From ALPHA LP
AL-045-502	ALPHA LP Separator
AL-045-503	ALPHA LP Separator Pre-Shutdown Scope - Phase 2B
AL-045-504	ALPHA - Shutdown Scope 2015
AL-045-506	Flash Gas Tie In Point - Shutdown 2015
AL-046-501	Export Oil Coolers - Shutdown Scope 2015
AL-048-501	Production Gas Scrubber - Vessel Internals - 2015
AL-048-502	Blow Down Valve - Shutdown Scope 2015
AL-055-501	Injection Compressor
AL-055-502	Injection Compressor
AL-055-503	Injection Compressor
AL-059-501	ALPHA Produced Water To JRP - Phase 2B
AL-059-502	ALPHA Produced Water To JRP - Shutdown Scope 2015
40 Rows Loaded	
Add Items	

If the pop-up window is blank, that means there is no data in the reference table:



If that's the case, (or we just want to add in an additional value) we know we need to go into the reference table and add some values in! Just click on Reference Tables and select the appropriate choice (for this example we'll use Disciplines).

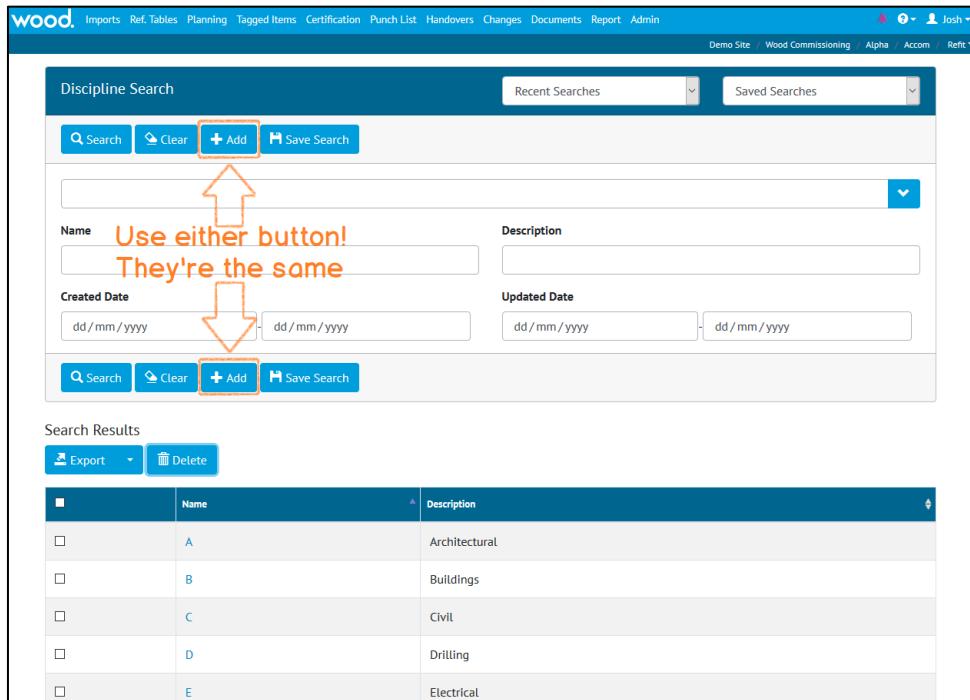
	Activities	ITRs	Safety Classes
	Areas	Job Card Statuses	Safety Statuses
	Authorised Persons	Locations	Secondary Handovers
	Cable Categories	Loops	Service Details
	Cable Types	Material Purposes	Service Intervals
	Certification Groupings	Material Statuses	Skills
	Digital Doc Check Box Types	Material Types	Stages
	Disciplines	Materials	Sub Systems
	Drawing Types	MOC Statuses	System Groups
	Drawings	MOC Types	Systems
	Equipment Statuses	Modules	Tag ITR Completion Statuses
	Equipment Type to ITR	Operation Types	Test Pack Types
	Equipment Type to PWL	Parent Tags	Units of Measure
	Equipment Types	PL Groups	Vendors
	Ex Certifying Bodies	Primary Handovers	Work Groups
	Ex IP Ratings	Priorities	Work Pack Completion Statuses
	Ex Protections	Professions	Work Pack Types
	Ex Rated Models	Project Codes	Zones
	Ex Zones	Punch List Item Categories	
	Gland Types	Q Packs	
	ITR Classes	Rooms	

Help! I can't see the table I want!

If the table you need to populate isn't in the list then you might not have access to it. Talk to your GoTechnology focal point about it.

If you **are** the GoTechnology focal point then get in touch with us instead! We'll help figure it out.

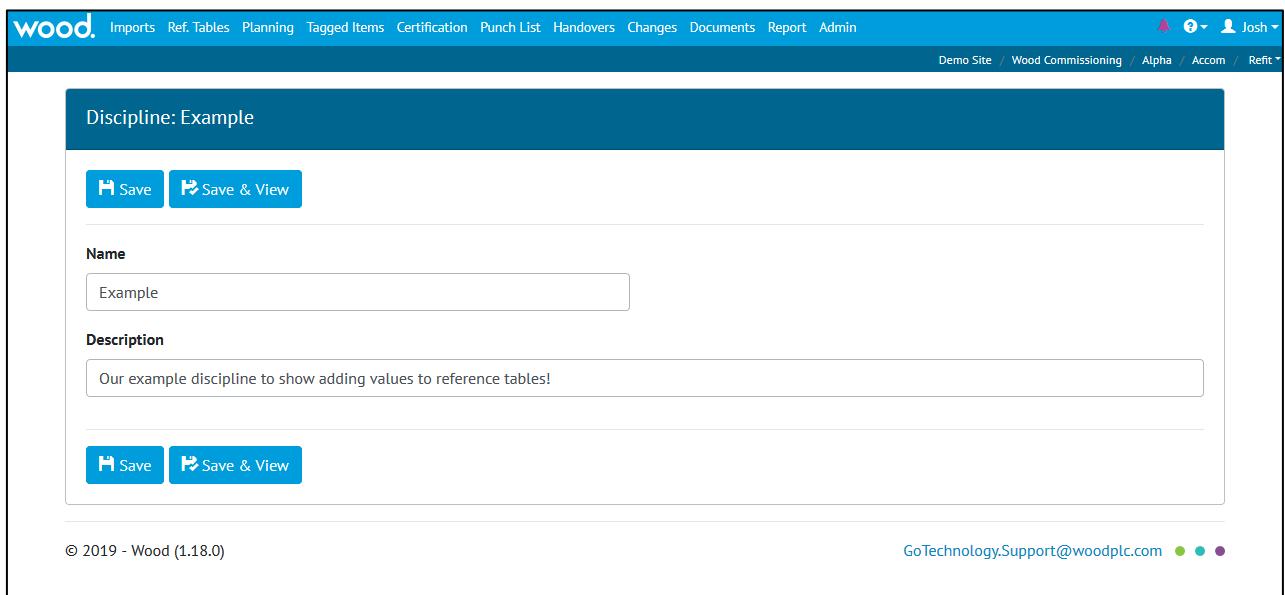
Once we've chosen the table we can go ahead and add data in (provided we have the right permissions). If you can't see an Add button then you need to get in touch with your focal point or with us to discuss.



The screenshot shows the 'Discipline Search' page. At the top, there are search controls: 'Search', 'Clear', '+ Add' (highlighted with an orange arrow), and 'Save Search'. Below these are fields for 'Name' and 'Description', and date ranges for 'Created Date' and 'Updated Date'. Another set of search controls is at the bottom. In the center, there's a table titled 'Search Results' with columns for a checkbox, 'Name', and 'Description'. The table contains five rows labeled A through E, each with a corresponding description: Architectural, Buildings, Civil, Drilling, and Electrical. The '+ Add' button at the top and bottom of the page are both highlighted with orange arrows pointing to them.

You can click either Add button, they both do the same thing. We have them at the top **and** bottom because some of the pages are quite long, and it makes it a little easier to use.

Enter in a name and description and click Save & View.



The screenshot shows the 'Discipline: Example' edit page. It has fields for 'Name' (containing 'Example') and 'Description' (containing 'Our example discipline to show adding values to reference tables!'). Below each field are two buttons: 'Save' and 'Save & View'. At the bottom left is the copyright notice '© 2019 - Wood (1.18.0)' and at the bottom right is the email 'GoTechnology.Support@woodplc.com' followed by three small colored dots.

Now we can go **back** to Tags and when we are adding or editing and we click on the Discipline popup button we'll see our new "Example" discipline in the list.

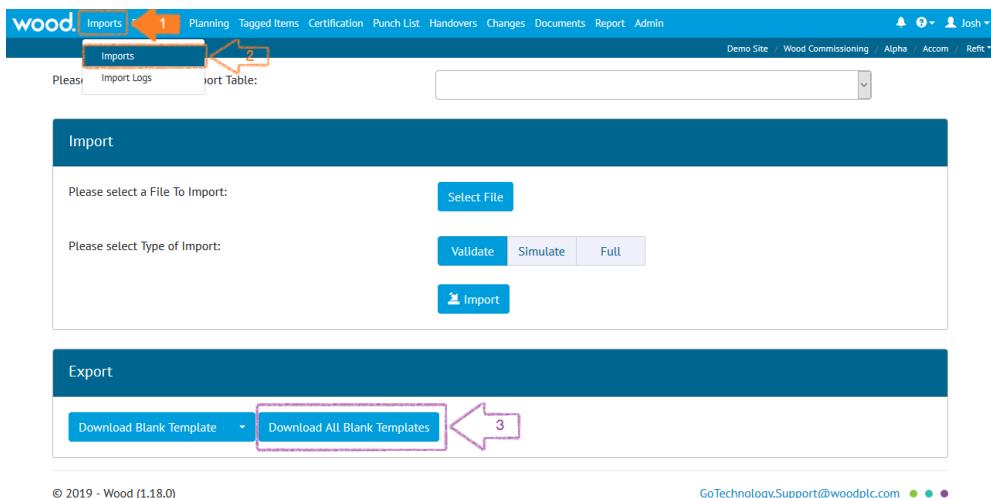
Name	Description
A	Architectural
B	Buildings
C	Civil
D	Drilling
E	Electrical
ec	Plumbing The new discipline we added
Example	Our example discipline to show adding values to reference tables!
F	Fire and Gas
G	Safety
H	HVAC
I	Instrumentation
L	Lifeboat
M	Mechanical
-	...
19 Rows Loaded	

Section 7.2. Using Imports and Exports

By now you're a totally confident GoTechnology expert. You've completed all the required training **and** you've read this far into the User Guide! Well done! That means you probably know all about the imports, and some of this might be repeating the obvious. But there might just be a few tips and tricks you're not aware of.

7.2.1. Downloading all blank templates

Let's start at the beginning: Where do we go to get all the blank import templates? Simple: Go to Imports and click the "Download All Blank Templates" button:



The screenshot shows the GoTechnology hub2 'Imports' interface. At the top, there's a navigation bar with 'Imports' highlighted. Below it is a sub-navigation bar with 'Imports' again. A dropdown menu labeled 'Import Table:' is open. The main area has two sections: 'Import' and 'Export'. The 'Import' section has fields for 'Please select a File To Import:' and 'Select File', and buttons for 'Validate', 'Simulate', and 'Full'. The 'Export' section has a dropdown for 'Download Blank Template' and a button for 'Download All Blank Templates'. A copyright notice at the bottom left reads '© 2019 - Wood (1.18.0)' and the bottom right has an email address 'GoTechnology.Support@woodplc.com'.

That will download a zipped file with all the blank templates ready to be populated.

7.2.2. Import Templates

All the import templates for GoTechnology are simply spreadsheets and can be opened in Microsoft Excel or similar and they utilise coloured headings to convey information:

A	B	C	D	E	F	G
Name	Description	Sub Systems	Discipline	Equipment Type	Source Drawing	Equipment Status
1						
2						
3						
4						
5						
6						
7						
8						

These colours are there to help you understand the nature of the fields. They're only there to aid you, so changing them won't make any difference.

But what do they mean?

Heading Colour	Meaning	Can be removed?	Details
Orange	Identifying	No	Uniquely identifies the record. There may be more than one Identifying field, meaning the record is identified by the combination of multiple fields.
Gold	Optional Identifying	Sometimes	Can be used as part of the identification for the field but if not then can be removed.
Blue	Required	Sometimes	Must be populated when new records are created. For existing records this can be removed.
White	Optional	Yes	Can be removed.

It might sound complicated but really, it's not:

- When you're creating new records, you need at least the Orange and Blue fields.
- When you're updating existing records, you need at least the Orange fields.

That's it!

Wait! What about the gold fields?!

A gold field is an **optional identifier**. That means they're there to give you a way of differentiating two records that would otherwise seem identical.

Imagine it this way: Your name is John Smith and you've just joined a new company. Unfortunately, there's already a John Smith there. As a way of telling the difference people might start using your middle name too. It's an **optional identifier**. If there was only one John Smith it wouldn't be required, but as there are two it's useful to fill in.

This means that if we want to change an optional field such as Source Drawing **we can remove the columns we don't need from the import sheet** leaving just the identifying column and the column we want to change:

	A	B	C	D	E	F	G	H
1	Name	Source Drawing						
2	01-TP-003	07R4187-WIN-0001						
3	076-E3979							
4	076-E3981							
5	076-E3983							
6	076-FT-1005							
7	076-FT-1011							
8	076-J3980							
9	076-J3982							
10	076-PST-1004							
11	076-PT-1001	2"-PG-FN-12022/MZ/A/1/FO-SHT1						
12	076-PT-1003							
13	081-XS-3001							
14	081-XS-3002							
15	084-E3197							
16	084-XS-3005							
17	088-XS-1201-J							
18	088-XS-1201-Y							
19	088-XS-1227-J							
20	088-XS-1227-Y							
21	088-XS-1228-A							
22								
23								
24								

Not only does this make it easier to read, it's faster to import too!

You can also change the order of the columns, so Source Drawing comes first and then Name.

Don't try renaming the column names though; that won't work.

7.2.3. Import Types: Validate, Simulate and Full

The screenshot shows the 'Import' section of the Wood software. At the top, there's a dropdown menu labeled 'Please select an Import / Export Table:'. Below it, a 'Select File' button is followed by three buttons: 'Validate', 'Simulate', and 'Full'. The 'Full' button is highlighted with a red border. A large orange arrow points to the 'Full' button from the right. At the bottom of the import section, there's a 'Import' button. Below the import section, there's an 'Export' section with buttons for 'Download Blank Template' and 'Download All Blank Templates'. The footer of the page includes copyright information ('© 2019 - Wood (1.22.0)') and contact details ('GoTechnology.Support@woodplc.com').

You might have noticed that there are three different options when running an import:

- **Full:** This is a standard import. Use this when you want to load the contents of the spreadsheet into the database. You get a results file at the end telling you what worked and what didn't.
- **Simulate:** Use this when you want to perform a “trial run”. It acts like an import but it doesn't actually change anything: You'll get the results file telling you what *would* happen, **but the data isn't actually loaded into the database**. Think of it like a “what-if?” analysis, letting you catch any issues ahead of time.
- **Validate:** This performs very limited, very basic checks: Is this a spreadsheet? Does it have headers that make sense? Are dates in the right format? Do any of the fields contain too many characters? The difference with this and Simulate are that validate does not check the database.

I don't get the difference between Simulate and Validate!

Simulate performs everything except actually adding the data to the database, that means it checks the basic rules **and** whether the required information exists in the database. **Validate** only checks the basic rules.

That means if you try to assign a Tag to a Subsystem that doesn't exist (let's call it “ASubSystemThatHasNotBeenAdded”) a Validate import will say that's OK: The name of the Subsystem is less than 50 characters.

On the other hand, if you ran a “Simulate” (or Full) the results will say the record is invalid with the reason “ASubsystemThatDoesNotExist is not a valid Sub System”

You don't have to run Validate or Simulate. They're just there to help you – if you feel confident you can run a Full Import straight away (although personally we always like to run a Simulate first... We're the cautious type!)

Type	Basic Checks	Reference Checks	Adds Data to Database
Validate	Yes	No	No
Simulate	Yes	Yes	No
Full	Yes	Yes	Yes

8. Handovers

Handover Certificates, usually referred to simply as 'Handovers' are used to guarantee Technical Integrity when responsibility is being transferred between Authorities.

Exactly what is being handed over, and when, varies between company, project and geographic location. Because of this, GoTechnology applications have a flexible approach, with a variety of configurations which can be used on a "per-scope-of-work" basis (Level E within hub2) allowing each to have its own Handover configuration.

The key components in each Handover are:

1. Name
2. Grouping
3. Gating

While the name is self-explanatory, the Grouping and Gating require further explanation.

8.1.1. Grouping

The Handover Grouping controls the "what" of the Handover, as in "What is it that I am handing over?" Perhaps the most commonly used Handover Groupings are System and Subsystem (e.g. when a Subsystem Handover is completed it represents a statement that responsibility for that Subsystem can be transferred onwards) but there are other categories too. The following groupings are available in hub2

1. Certification Grouping
2. System
3. Subsystem
4. Primary Handover
5. Secondary Handover
6. System / Discipline
7. Subsystem / Discipline
8. Area
9. Module
10. Level E

8.1.2. Gating

The Handover Gating determines the "which" (the 'scope') and "when" (the 'ordering') of the Handover within the overall project, serving to answer the questions "Which certificates/ITRs are covered by this Handover and when in the complete Handover process should this particular Handover occur?"

Both questions are answered with a single field: The Handover Gate Number.

This field acts as both a link between the Handover and the ITR Classes as well as means of ordering the Handover within the project.

8.1.2.1. Example: How Gating affects ordering.

As an example of how this works, consider a scenario where there are three Handovers (please note these are intended as examples only):

Handover	Gating
HOC	3
MCDAC	1
PCDAC	2

The Handovers are listed above alphabetically; however, in terms of the order within the Process, the MCDAC comes first, followed by the PCDAC and finally the HOC.

We can expand this further with an additional Handover:

Handover	Gating
CCC	1
HOC	3
MCDAC	1
PCDAC	2

Now we can see that both the CCC and the MCDAC are to be completed first, followed by the PCDAC and HOC.

8.1.2.2. Example: How Gating affects scoping.

If we retain our previous set of four Handovers and introduce a table listing our ITRs and ITR Classes we can see how Gating affects scoping too.

ITR Class	Gating
COM	3
MC	1
PC	2

Now we know that our CCC and MCDAC cover all ITRs in the MC ITR Class, our PCDAC covers all in the PC class and our CCC in the COM class.

8.1.3. Walk Downs

Another key element in the handover process involves the physical inspection of the scope of the Handover (be it a System, Subsystem, Area or something else) by the process stakeholders. This process is known as a Walk Down.

There may be multiple Walk Downs held but all have the same general purpose: To identify any unrecorded defects and to verify that defects which have previously been identified have been actioned appropriately.

9. Preservation

Preservation involves tasks related to ensuring unused equipment is kept in working condition. These tasks are often repeated on a regular schedule, to ensure the equipment is properly maintained and ready to use when required.

9.1.1. Preservation Work List (PWL)

Within hub2 'Preservation Work Lists' (PWLS) are used to record the completion of preservation tasks, and can be assigned to Tags, in a similar fashion to ITRs. The difference is that PWLs are part of a regular schedule of maintenance on unused equipment, while ITRs are used to sign-off that installed equipment is safe and has been properly tested as part of the Handover process (in which the goal is to start, or restart, the facility).

9.1.2. Tag Preservation Work List (Tag PWL)

Just as a Tag ITR represents an actual assignment of an ITR to a Tag so does a Tag PWL represent a PWL to a Tag. To explain this further; our PWL table will contain an entry for each type of Work List available for use. So, if there are ten different Work List types (perhaps named 'PRES-A', 'PRES-B', 'PRES-C' and so on) then there will be ten entries in the PWL table.

However, any one of these PWLs may be assigned multiple times to many different tags. This is where the Tag PWL entity comes into play; storing the details of each Work List the user creates and assigns.

9.1.3. Frequency

The Frequency of a Tag PWL describes how regularly the applicable preservation work should be performed. If a Tag PWL has a Frequency of seven days, then it should be performed once every week.

If it has a Frequency of 365 days it should be performed once, and then is not due for another 365 days, either from the Due Date (so the schedule remains consistent) or from the Sign-Off Date (so the schedule adjusts based on when the Tag PWL was actually signed off), depending on the configuration of hub2.

9.1.4. Due Date and Sign-Off Date

The Due Date is when the Tag PWL is expected to be completed by, while the Sign-Off Date is when the Tag PWL was actually signed off. It is possible in hub2 to apply restrictions to when Sign-Off can be accomplished, via the Level C Preservation Window Before and Preservation Window After settings.

9.1.5. Preservation Window

The Preservation Window (via the Preservation Window Before and Preservation Window After fields on Level C) allows restrictions to be placed on when a Tag PWL can be signed-off, specifically in relation to the Due Date.

The settings allow the Preservation Window to be restrict how many days before and how many days after the Due Date is acceptable. These values can be different. If either (or both) value is left blank, then no restriction applies.

9.1.5.1. Examples

9.1.5.1.a. Due Date: 14 February 2017

Due Date	Preservation Window		Acceptable Sign-Off Values
	Before	After	
14 February 2017			Any
14 February 2017		2	Any date before 17 February 2017.
14 February 2017	2	2	12 February 2017 to 16 February 2017.
14 February 2017	5	2	9 February 2017 to 16 February 2017.

9.1.5.1.b. Due Date: 20 March 2049

Due Date	Preservation Window		Acceptable Sign-Off Values
	Before	After	
20 March 2049			Any
20 March 2049		2	Any date before 19 March 2049.
20 March 2049	3	4	17 March 2049 to 24 March 2049
20 March 2049	31	16	17 February 2049 to 5 April 2049

9.1.6. Preservation Progress Method

Preservation Progress Method is a Level C setting which will be used to determine the next Due Date when advancing Preservation which is being signed off. When any Tag PWL item which has a populated Frequency field is signed off a new Tag PWL record will be created and its Due Date will be set based on the Preservation Progress Method as detailed in the following table:

Preservation Progress Method	Due Date	Sign Off Date	Advanced Due Date (Frequency of 5 Days)
Due Date	15/01/2016	18/01/2016	20/01/2016
Sign Off Date	15/01/2016	18/01/2016	23/01/2016

10. Assurance

The Assurance section is as an area where project related lists can be recorded. It is intended to provide users with an alternative to the use of uncontrolled spreadsheets stored on network drives or emailed between recipients and may be beneficial for scenarios such as

- Pre-Construction Trackers
- Operation Readiness Trackers
- Competency Recording

Section 10.1. Creating a Tracker

Before an Assurance Tracker can be created, we have to first create a Tracker Type. We can do this through the Tracker Type import or on-screen via Ref. Tables > Tracker Types

10.1.1. Creating a Tracker Type

The type of Tracker we wish to create is a "Statement of Fitness". Normally it is an Excel spreadsheet:

CHECKLIST FOR STATEMENT OF FITNESS				
Project Title: Template v2 (December 2018)		Discipline	TA initial	Date
Comments (Gaps/ where captured/ close-out)				
a. Process safety risks have been identified and documented and are managed to ALARP - HSSE Cases in place & approved (AIPSM Application Manual requirements Applica & 12)				
1	Design ALARP demonstration Report (Design HSSE & SP Case) (PMF 1.D.5 & 1.D.6) including HEMP + Bow Ties (or similar) & Fire and Explosion Assessment	HSSE & SP		
2	Operations ALARP demonstration report (Operational HSSE Case) (DCAF ID 648) including SIMOPS & MOPO	Production Operations / Operations Management, HSSE & SP, Project Engineering		
3	All HEMP(HAZOP, PSR, etc.) Actions Closed Out- Report in place and signed off.	HSSE & SP		
4	Risk Register & Risk Management Plan in place for Project and Operations	Project Management		
5	Emergency response plan	Production Operations / Operations Management		
6	Transient modes and Operating Modes are evaluated (by OMAR) and gaps closed out.	Production Operations / Operations Management		
7	Asset Integrity Risks are identified and rated in MTO database; MTO is Updated and handed over to Facility	Production Operations / Operations Management		
8	Project Specific Items xxx			
b. Employees or contractors executing HSSE Critical Activities are competent and fit to work (AIPSM Application Manual requirements -3, 4, 5 & 6)				
1	Operator Competence Assurance Plan with HSSE critical roles identified in job descriptions(DCAF ID 470) and accepted by job holder.	Production Operations / Operations Management		
2	Personnel in HSSE Critical positions roles are passed fit for work and trained on HSSE Critical Activities	Production Operations / Operations Management		
3	Technical Authority or other approval framework in place for operate phase	Production Operations / Operations Management		
4	Project Specific Items			
c. HSSE Critical Equipment meets its Technical Integrity requirements (AIPSM Application Manual requirements -8)				
1	SCEs have been identified and documented in Asset register, included in Operate HSSE Case (DCAF ID 1448)	HSSE & SP		
2	Performance Criteria for design, procurement & construction and commissioning have been developed and approved by the Technical Authorities (DCAF ID 384)	Maintenance & Integrity		
3	Asset Integrity verification(TIV) Report (assurance and verification of the	Project Management		

We want to convert it to be stored in GoTechnology hub2 instead. Firstly we create the Tracker Type:

The screenshot shows the 'Tracker Type' creation interface. The title bar says 'Tracker Type: SoF'. There are two main sections: 'Name' (containing 'SoF') and 'Tracker Sub Category' (containing 'Asset Integrity'). Below these are 'Description' (containing 'Statement of Fitness') and 'Phase' (containing 'SU'). At the bottom are 'Save' and 'Save & View' buttons. The footer includes copyright information and a support email.

Aside from the name and description ("SoF" and "Statement of Fitness" respectively) we've chosen a Sub Category of Asset Integrity and a Phase of SU (Start-Up).

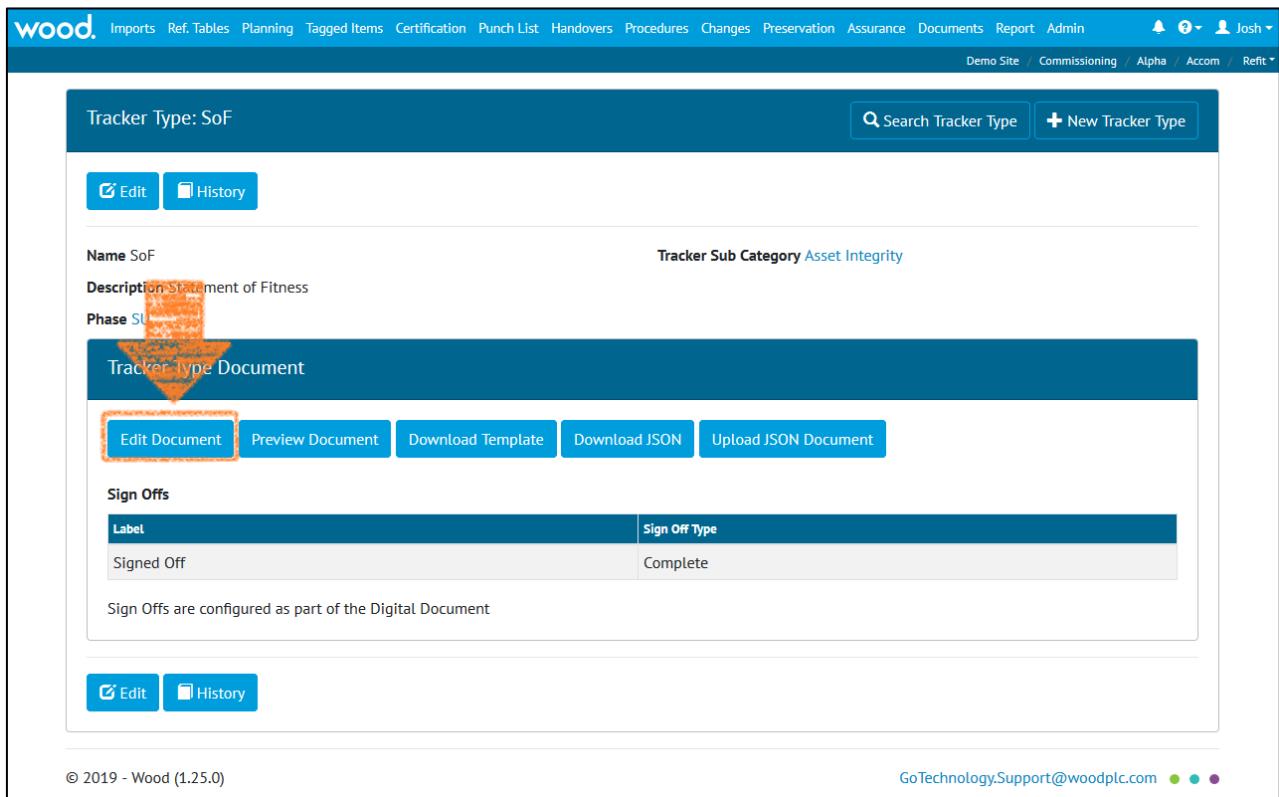
The Sub Category (and it's parent Category) are user-defined references tables, which you can use to create groupings. The values are up to you/your company/your focal point – for this example we have a Sub Category of "Asset Integrity" (as that is what the SoF applies to) which belongs to a Category called "Mandatory Forms" (as organisations that use an SoF make it a required part of the project execution)

Note: Phase and Sub Category are optional, but if you do wish to use them, you'll need to ensure the following tables have been populated in advance:

- **Tracker Category**
- **Tracker Sub Category**
- **Phase**

Once we've saved this information (click "Save & View") we can move on to creating the template itself.

10.1.2. Creating the template



The screenshot shows the 'Tracker Type: SoF' page in the wood. application. At the top, there's a navigation bar with links like Imports, Ref. Tables, Planning, Tagged Items, Certification, Punch List, Handovers, Procedures, Changes, Preservation, Assurance, Documents, Report, Admin, and user profile. Below the navigation is a search bar and a 'New Tracker Type' button. The main content area has tabs for 'Edit' and 'History'. It displays the tracker type details: Name (SoF), Description (Statement of Fitness), Phase (S), and Tracker Sub Category (Asset Integrity). A large blue box labeled 'Tracker-type Document' contains buttons for Edit Document, Preview Document, Download Template, Download JSON, and Upload JSON Document. Below this is a 'Sign Offs' section with a table:

Label	Sign Off Type
Signed Off	Complete

A note says 'Sign Offs are configured as part of the Digital Document'. At the bottom are 'Edit' and 'History' buttons, and copyright information: © 2019 - Wood (1.25.0) and GoTechnology.Support@woodplc.com.

By clicking the Create/Edit button we can begin the process of setting up our SoF Tracker Type Digital Document.

The process is the same as with other types of Digital Document, such as ITRs and Work Pack close out forms, and involves defining any bookmarked header fields, the tasks to be completed and the sign-offs required.

Edit Digital Document for SoF : Current Revision - 0

[View SoF](#)

[Save Revision 0](#) [Save as New Revision](#) [Clone from...](#)

HEADER **HEADER TABLE** **TASK** **SIGN OFF** **SETTINGS** **PREVIEW**

Preview:

Tracker	Name

Row: 1 [Remove Row](#)

Action	Label	Bookmark	Editable
Remove	Tracker	Name	<input type="checkbox"/>

[+ Add Column](#)

Repeat Row On New Page

[+ Add Row](#)

[Save Revision 0](#) [Save as New Revision](#)

[View SoF](#)

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Our SoF template only has a single header value: Name.

CHECKLIST FOR STATEMENT OF FITNESS

Project Title: Template v2 (December 2018)

Asset Integrity Activity (PIMF and DCAF reference #)

Discipline	TA Initial	Date	Comments
HSSE & SP			(Gaps where captured/ close-out)

a. Process safety risks have been identified and documented and are managed to ALARP - HSSE Cases in place & approved (AIPSM Application Manual requirements A4.1.1)

1. Design ALARP demonstration Report (Design HSSE & SP Case) (PIMF 1.D.5 & 1.D.6) including HAZOP - Bow Ties (or similar), Fire and explosion analysis.

2. Design ALARP demonstration report (Operational HSSE Case) (DCAF ID 640) including SIMOPS & MRO.

3. All HEMPI(HAZOP, PSR, etc.) Actions Closed Out- Report in place and signed off.

4. Task Register & Risk Management Plan in place for Project and Operations.

5. Emergency response plan.

6. Transient Modes and Operating Modes are evaluated by QMAR and signed off.

7. Asset Integrity Risks are identified and rated in MTO database, MTO is updated and handed over to Facility.

8. All HEMPI(HAZOP, PSR, etc.) Actions Closed Out- Report in place and signed off.

b. Employees or contractors executing HSSE Critical Activities are competent and fit to work (AIPSM Application Manual requirements -3, 4, 5 & 6)

1. Operator Competence Assurance Plan with HSSE critical roles identified in job descriptions(DCAF ID: 470) and accepted by job holder.

2. Personnel in HSSE Critical positions roles are passed fit for work and trained on HSSE Critical Activities.

3. Technical Authority or other approval framework in place for operating changes.

4. Project Specific Items

c. HSSE Critical Equipment meets its Technical Integrity requirements (AIPSM Application Manual requirements -8)

1. CICs have been identified and implemented in Asset register, included in HSSE & SP

2. Performance Criteria for design, procurement & construction and commissioning have been developed and approved by the Technical Authorities (DCAF ID 384)

3. Asset Integrity Verification(IV) Report (assurance and verification of the Project Management

HEADER **HEADER TABLE** **TASK** **SIGN OFF** **SETTINGS** **PREVIEW**

Checkbox Options

Action	Details
Remove	a. Process safety risks have been identified and documented and are managed to ALARP - HSSE Cases in place & approved (AIPSM Application Manual requirements A4.1.1)

[+ Add Title](#) Required

Task

Action	Details
Remove	Design ALARP demonstration Report (Design HSSE & SP Case) (PIMF 1.D.5 & 1.D.6) Including HAZOP - Bow Ties (or similar), Fire and explosion analysis.

[+ Add Title](#) Required

Sign Off

Action	Details
Remove	All HEMPI(HAZOP, PSR, etc.) Actions Closed Out- Report in place and signed off.

[+ Add Title](#) Required

Settings

Action	Details
Remove	Risk Register & Risk Management Plan in place for Project and Operations

[+ Add Title](#) Required

Preview

Next we copy the information from the existing spreadsheet into the Digital Document Tasks

Imports Ref.Tables Planning Tagged Items Certification Punch List Handovers Procedures Changes Preservation Assurance Documents Report Admin Demo Site / Commissioning / Alpha / Accom / Refit

HEADER HEADER TABLE **TASK** SIGN OFF SETTINGS PREVIEW

Checkbox Options

Action	Details
A1	a. Process safety risks have been identified and documented and are managed to ALARP - HSSE Cases in place & approved (Al) Design ALARP demonstration Report (Design HSSE & SP Case) (PMF 1.D.5 & 1.D.6) including HET <input checked="" type="checkbox"/> Required Weighting 1 Long Comment Comment Line Length: 1
A2	Operations ALARP demonstration report (Operational HSSE Case) (DCAF ID 648) including SIMOF <input type="button" value="+ Add Title"/> <input checked="" type="checkbox"/> Required Weighting 1 Long Comment Comment Line Length: 1
A3	All HEMP(HAZOP, PSR, etc.) Actions Closed Out- Report in place and signed off. <input type="button" value="+ Add Title"/> <input checked="" type="checkbox"/> Required Weighting 1 Long Comment Comment Line Length: 1
A4	Risk Register & Risk Management Plan in place for Project and Operations Date Signature

Once we've finished copying the Tasks over, we can move on to adding the Sign-Offs.

Imports Ref.Tables Planning Tagged Items Certification Punch List Handovers Procedures Changes Preservation Assurance Documents Report Admin Demo Site / Commissioning / Alpha / Accom / Refit

Edit Digital Document for SoF : Current Revision - 0 [View SoF](#)

HEADER HEADER TABLE **TASK** **SIGN OFF** SETTINGS PREVIEW

Action	Label	Signed Off Type
Remove	Project Manager Sign Off	By <input checked="" type="checkbox"/> Required
Remove	Asset Manager Sign Off	By <input type="checkbox"/> Complete

[View SoF](#)

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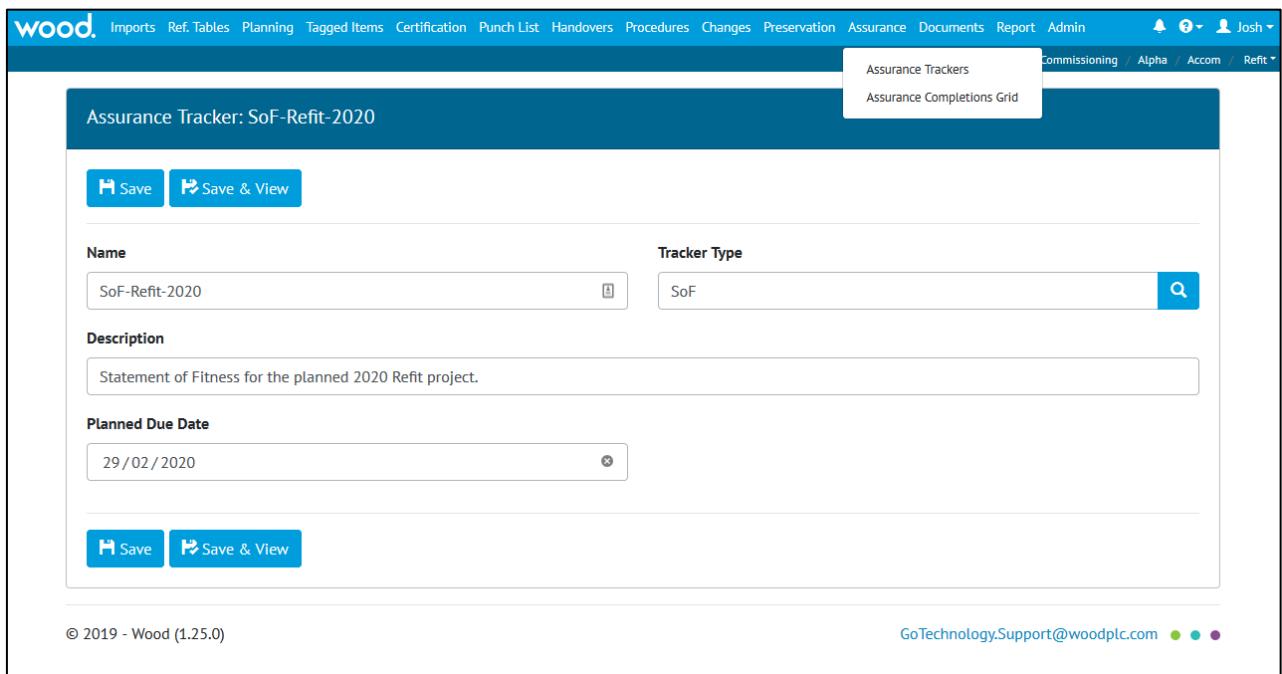
The SoF has two: Project Manager Sign Off and Asset Manager Sign Off, both are mandatory but it is the latter which marks the SoF as closed and accepted, so the types are "Required" and "Complete" respectively.

Our template is now complete and can be used by projects. We'll only need to revisit this section if we wish to make changes to the template.

10.1.3. Creating and Filling in an Assurance Tracker

Now we have the SoF tracker type created, we can proceed to the Assurance > Assurance Tracker type to use the template.

Go to Assurance > Assurance Tracker and click the "Add" button, that will bring up the creation screen:



Assurance Tracker: SoF-Refit-2020

Name: SoF-Refit-2020

Tracker Type: SoF

Description: Statement of Fitness for the planned 2020 Refit project.

Planned Due Date: 29/02/2020

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We've given our SoF a name (this will be shown on the header of the document, as we bookmarked this field during the process of creating the template in the Tracker Type) and description as well as a planned due date. We also chose the correct Tracker Type of "SoF" in the Tracker Type field.

Click Save and View

Assurance Tracker: SoF-Refit-2020

Document Generate

Not Signed Off

Name SoF-Refit-2020 **Tracker Type** SoF

Description Statement of Fitness for the planned 2020 Refit project.

Planned Due Date 29 Feb 2020

Signed Off By (None) **Signed Off Date** (None)

Attachments

(None)

Edit **History**

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Then click "Edit Document"

Task Progress 2.56%

Tasks

a. Process safety risks have been identified and documented and are managed to ALARP - HSSE Cases in place & approved (AIPSM Application Manual requirements Application Manual requirements-1.2 & 12)

A1 - Design ALARP demonstration Report (Design HSSE & SP Case) (PMF 1.D.5 & 1.D.6) including HEMP + Bow Ties (or similar) & Fire and Explosion Assessment Anastasija - 13 Dec 2019 - Completed and l

Task Completed on Date: 13/12/2019

Task Completed By: Anastasija

Completed and loaded into document control with Document Number DCS-ABC-123

Add Image

A2 - Operations ALARP demonstration report (Operational HSSE Case) (DCAF ID 648) including SIMOPS & MOP0

Task Completed on Date:

Task Completed By:

Comment

<https://demo.gotechnology.online>

Now we can fill the Tracker with the results and save them by clicking the "Save" button.

Imports Ref. Tables Planning Tagged Items Certification Punch List Handovers Procedures Changes Preservation Assurance Documents Report Admin Demo Site / Commissioning / Alpha / Accm / Refit

Josh

SoF Statement of Fitness 0.51 %

SoF-001 SoF 0.00 %

SoF-003 SoF 0.00 %

SoF-Refit-2020 Statement of Fitness for the planned 2020 Refit project. 2.56 %

© 2019 - Wood (1.25.0)

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Finally, by going to Assurance > Tracker Completion Grid we can see a visual representation of our progress. 2.56% - it's not much but it's a start!

11. Reports

Now you've loaded all your data (or at least the first batch) you probably want to know how to use it to generate status and progress reports. Well, GoTechnology hub2 has several options at your disposal.

Section 11.1. Dashboard

The first and most visible report you'll see is the Dashboard. It acts as an overview and a "health check" of the Scope (Level E) you're currently viewing:



The dashboard is divided into six sections, which we'll detail below.

11.1.1. Handovers

This section shows up to six types of Handover. They're listed by "gate" and then alphabetically. Each dial shows a percentage of how many Handovers of that type have been signed off as Complete.

11.1.2. Tag ITRs

The first dial here shows the total percentage of ITRs signed off. After that it's broken down by ITR Class. Up to five different classes can be shown at once (remember; you set up your ITR classes in the reference tables), and they're ordered in the same way as the Handovers (gate then alphabetical)

11.1.3. Punch List Items

Similarly, the Punch List dials show the total and then the Punch List categories (as defined in your Punch List Categories reference table). They're listed alphabetically.

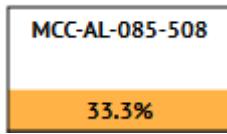
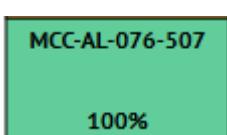
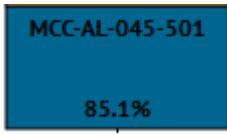
11.1.4. MOCs

MOCs follow the same pattern – overall total and then a total for each MOC Type. Once again, the total represents the number of MOCs that are closed.

11.1.5. Mini-Skyline

Here we have a cut-down version of the Interactive Skyline (which you can find in Reports > Skyline. There's also Filtered Skylines in Reports > Report List at the bottom of the page) which is fixed to only show one type of Handover (in the screenshot above it's MCC, which is a Mechanical Completion Certificate). If you're an Administrator you can choose which Handover is displayed on the dashboard in the Level E configuration screen.

Skalines show a left-to-right view of a project. Each box represents a Handover, and **they're grouped together by the date they are due** (the Planned Finish Date for the Handover. You can set this value in the Handovers section, or via the Handovers imports)

Foreground Colour	Meaning
Orange: 	Progress is being made!
Green: 	All the ITRs are complete!!
Blue: 	The Handovers been accepted!!!

Background Colour	Meaning
-------------------	---------

White: <div data-bbox="327 280 552 386" style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"><p>MCC-AL-070-503</p><div data-bbox="327 327 552 386" style="background-color: #fbc02d; height: 100%; width: 100%;"></div></div> <p>50%</p>	We haven't passed the Planned Finish Date for this Handover (and we're 50% through the work on the ITRs)
Red: <div data-bbox="327 458 552 565" style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"><p>MCC-AL-084-501</p><div data-bbox="327 505 552 565" style="background-color: #e67e22; height: 100%; width: 100%;"></div></div> <p>50%</p>	Unfortunately, we're now passed the Planned Finish Date for the Handover, which means we're running behind schedule (and we're 50% through the work on the ITRs).
Rainbows and Polka Dots	I just made this one up to see if you were still paying attention.

On the mini-skyline, space is limited, so all the Overdue items are grouped together in one column.

Why are they called Skylines anyway?

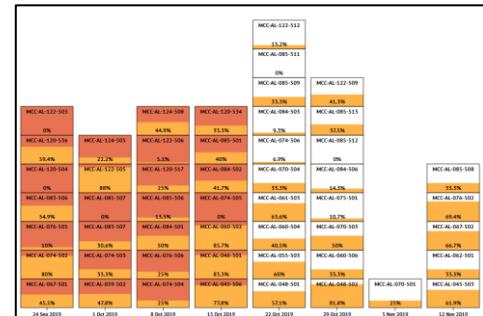
Well, think of New York. The Big Apple. NYC. Picture those sky scrapers. That iconic [skyline](#).

Get the picture?

New York



Not New York

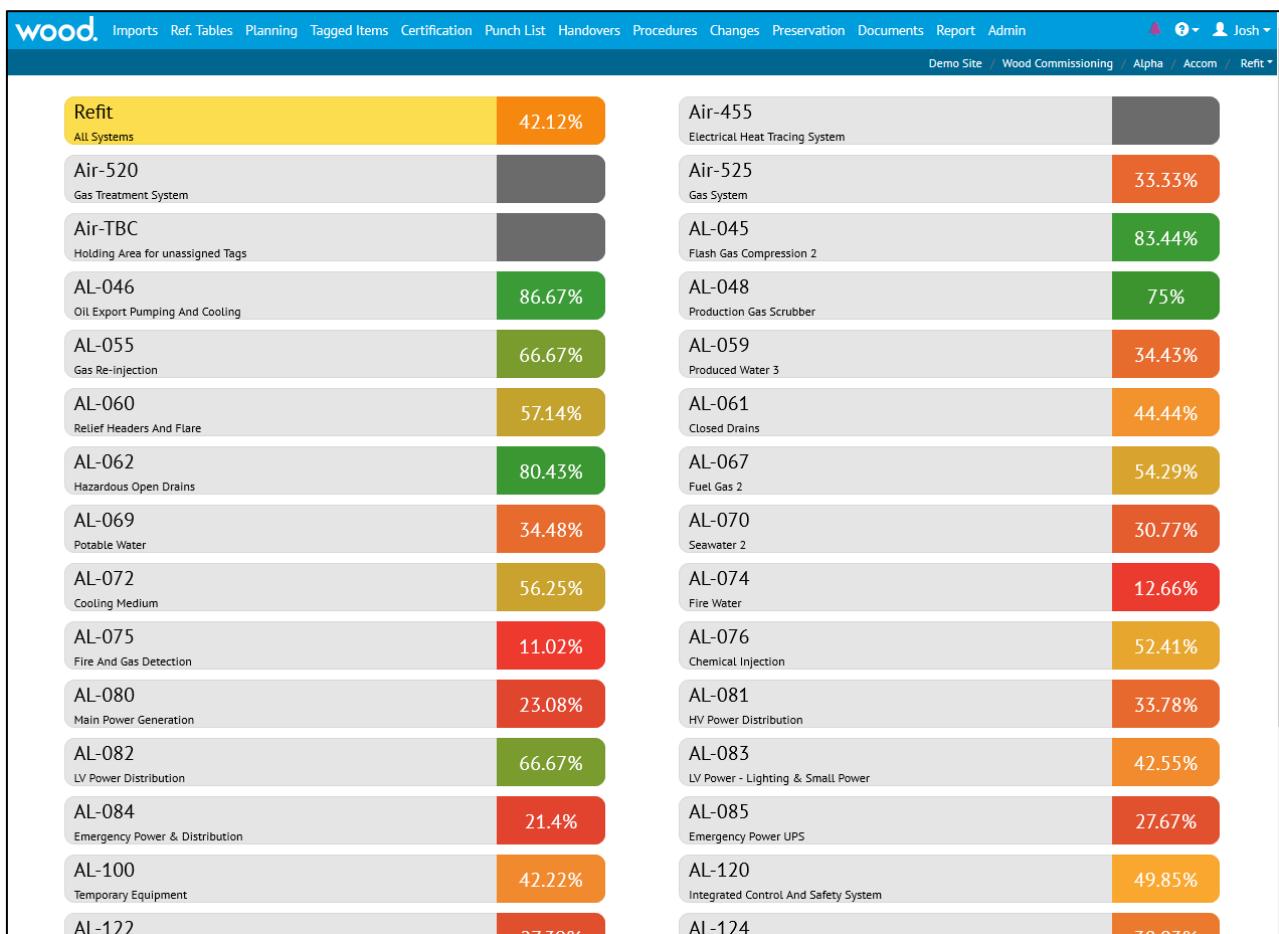


11.1.6. Mini-Planned vs Actual

A smaller version of the Planned vs Actual report (the full version is available in Reports > Planned vs Actual) which is fixed to only show one type of Handover (in the screenshot above it's MCC, which is a Mechanical Completion Certificate). If you're an Administrator you can choose which Handover is displayed on the dashboard in the Level E configuration screen.

The Planned vs Actual reports show the total ITR Completion over time. As such, it's actually the same information as shown in the Skyline, but instead of being broken down into individual Handovers, it's totalled up and displayed in an "S-Curve" format.

Section 11.2. Completions Grids



The Completions Grids provide an interactive visual view of the data, which can be a helpful way to quickly drill down into project Status.

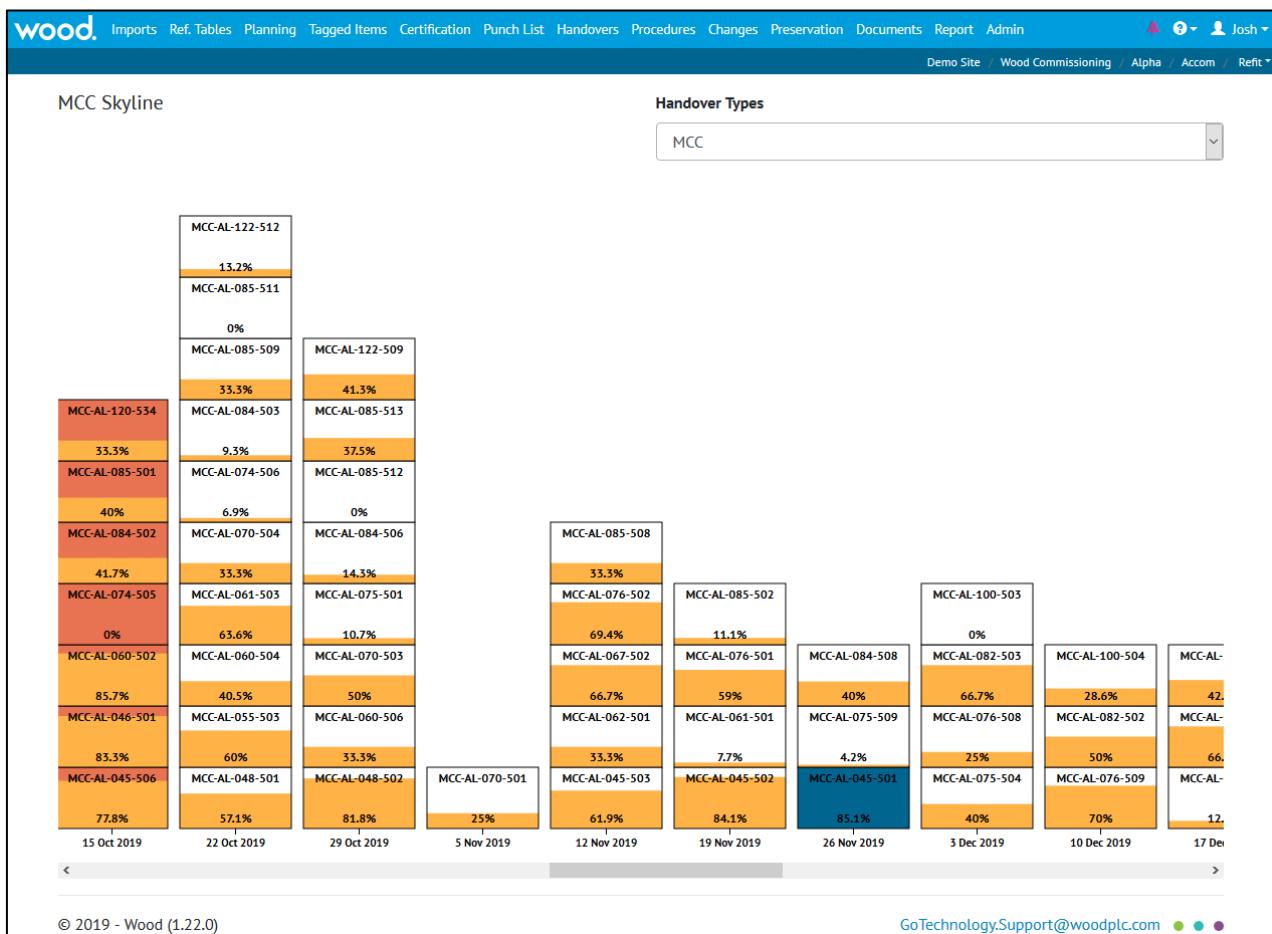
11.2.1. System

In the standard Completions Grid (Reports > Completions Grid) we get a listing of ITR progress by System. If we click on the System we get to the Subsystems, and if we click on the Subsystems, we get to the details page.

11.2.2. Work Pack

In the Work Pack Completions Grid (Reports > Work Pack Completions Grid) we have a list of Work Packs. Clicking on a Work Pack gives us the Job Cards underneath and clicking on the Job Card gives us its details.

Section 11.3. Skylines



How do you like your Skylines; Interactive or Filtered? We've got both!

(If you'd like to know what Skylines are, go back up to the Mini-Skylines section. We'll wait here for you.)

11.3.1. Interactive

The Interactive Skyline is found in Reports > Skyline. You can choose the Handover Type from the dropdown, scroll left and right, and click on the box to bring up further details!

11.3.2. Filtered

The Filtered Skylines are found in Reports > Report List at the bottom of the page. There's one for each Handover Type.

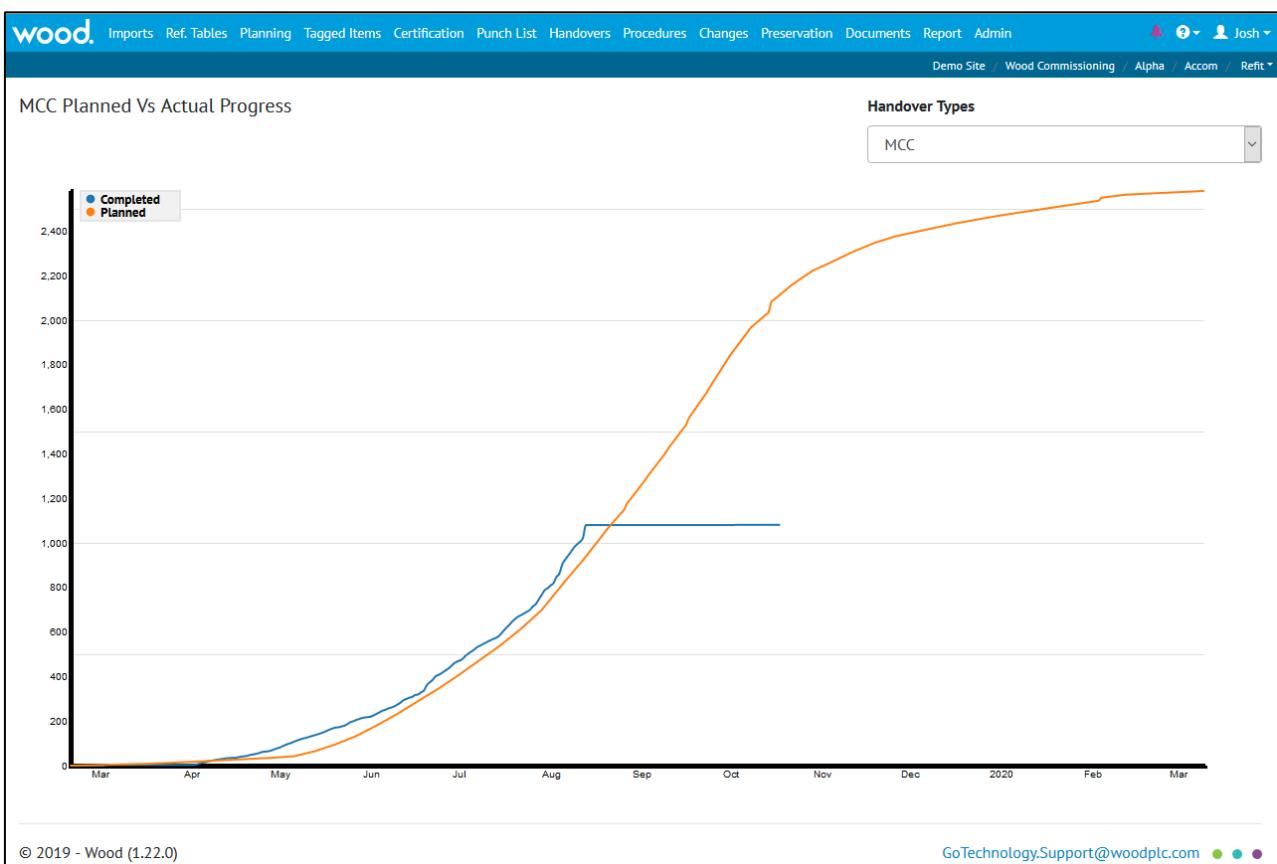
What makes them filtered? Well, you can apply filters to them before you hit the run button, allowing you to narrow down the results to only include what you need.

Wait, what did you say was the difference between "Interactive" and "Filtered" Skylines?

Interactive Skylines are shown on screen. You can click on the boxes and more details come up on screen.

Filtered Skylines generate out as PDF files. Before you run them you can apply Filters like the Planned Start / Finish dates. This lets you target your results more specifically.

Section 11.4. Planned vs Actual



The full version of the Planned vs Actual report, available in Reports > Planned vs Actual Progress. You can choose which Handover to display using the drop down on the top right.

(For more information on Planned vs Actual reports, please read the "Mini-Planned vs Actual" section earlier in the document.)

Planned Progress is shown in Orange and Completed (Actual) in blue. From the looks of the screenshot above, someone will be losing their job soon!

Section 11.5. Detailed & Summary Reports

In GoTechnology hub2 **you** create the reports (provided you have the right permissions of course)

Let's create one right now (or if you'd rather not, you can just skip this section. We won't be offended.)

11.5.1. Recreating the Detailed Filtered Report

The Detailed Filtered Report was far and away the most popular report in our old software GoCompletions (in fact 46% of the time people ran a report it was the DFR, making it more than three times as popular as the second placed Detailed Punch List report.)

To recreate it, just follow these steps:

1. Click Reports > Create Detailed Report
2. In the Type Dropdown choose "Tag ITR"

Select Type

Type
Tag ITR

Select Groups (PDF Only)

ITR
ITR Discipline
Sub System
Secondary Handover
Module

Tag Discipline
System
Primary Handover
Area

To change the order, just click and drag the double-ended arrow up or down!

Group	Group Description	Label on Report
System	System Description	System
Sub System	Sub System Description	Sub System

3. In the Select Groups section choose System and Subsystem, as shown above.

Select Columns	
Tagged Item	Tagged Item Description
ITR	ITR Description
Test Reference	Tag Discipline
Tag Discipline Description	ITR Discipline
ITR Discipline Description	Assigned To
Job Card	System
System Description	Sub System
Sub System Description	Tag ITR Completion Status
Area	Area Description
Module	Module Description
Parent Tag	Loop
Loop Element	Comments
Document Reference	Task Progress Numeric

4. Scroll down the page and select the following fields (also shown **above**):

- a. Tagged Item
- b. Tagged Item Description
- c. ITR
- d. ITR Description
- e. Test Reference
- f. Area
- g. Module
- h. Completed By (this field may be called something different in your version, as the field can be renamed to match company specific terminology. If in doubt, ask your focal point!)
- i. Completed Date

Select Details

Report Code	Report Name	Report Category		
DFR	Detail Filtered Report	Detailed		
Column Name	Header on Report	Title (Above Header)	Pdf Width	Xlsx Width
Tagged Item	Name	Tag	10	20
Tagged Item Description	Description	Tag	20	40
ITR	ITR	ITR	10	20
ITR Description	ITR Description	ITR	20	40
Test Reference	Test Reference	ITR	10	20
Area	Area		10	20
Module	Module		10	20
Completed By	Completed By		10	20
Completed Date	Completed Date		10	20

Save Report

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5. Now fill in the remaining fields (see screenshot below)

- a. In Report Code enter "DFR", this is just a short-hand way to refer to the report. Much easier to say.
- b. Report Name, erase the text in there and replace with "Detail Filtered Report". This is the full name – helpful in understanding what the report actually does.
- c. For Tagged Item
 - i. Change the Header on Report to "Name"
 - ii. Change Title (Above Header) to "Tag"
- d. Similarly, for Tagged Item Description
 - i. For Header on Report use "Description"
 - ii. For Title (Above Header) use "Tag" again. This will group the two together, which you'll see later.
- e. For ITR, change the Title (Above Header) to "ITR"
- f. For ITR Description
 - i. Change the Header to "Description"
 - ii. Enter "ITR" in the Title (Above Header)
- g. For Test Reference
 - i. Rename to Test Ref
 - ii. Enter "ITR" in the Title
- h. Click "Save Report" and you're done!

Remember: If any of the fields are in the wrong order, just click and drag the double ended arrow.

You can also change the widths of the columns if you like – “PDF Width” affects how wide (or narrow) the columns are when you generate as a PDF. “XLSX Width” when you generate as a spreadsheet.

Now use the top menu to go back to the Report > Report List page and find your report in the Detailed Category. Click on it (**DFR. Detail Filtered Report**), and then click the **Run PDF** button, you should get a PDF that looks a little like the below:

Detail Filtered Report								wood.
Refit								
Tag	ITR							
Name	Description	ITR	ITR Description	Test Reference	Area	Module	Completed By	Completed Date
System: Air-525 - Gas System								
Sub System: Air-525-600 - 1st & 2nd Stage HP Gas Compression Package A								
01AP-525-JN-8795A	Cable from 525-EJBN-8759A, to 710-J-1017A	F01B	Gas Detector Loop Test				Henry Leung	02 October 2019
Sub System: Air-525-601 - 1st & 2nd Stage HP Gas Compression Package B								
TESTING	Cable from 525-JBZ-8798 B, to 705-J-8 800B	I16A	Instrument Cables					
Sub System: Air-525-611 - LP/MP Gas Compressor A Lube Oil System								
01AP-330-E-7501A	Compressor Oil Cooler	A01A	Architectural Outfitting					

Well done! Now go make some more reports!

How do I edit my reports?

Go to Report > Report List and click the “Edit Reports” button.

Now just click the “Edit” button next to the report you want to change, and you’ll be back to the edit screen – and remember to click Save Report when you’re done!

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