Item 1

Indicated on figure 1 as 1, shows the total number of interfaces for each contract in group 1.

Logic:

* Total number of interfaces = number of interfaces where the contract is the lead contract + number of interfaces where the contract is the supporting contract.

Explanation:

We need to find out how many interfaces with contract number listed under Group 1 and appearing in the leadcontract field

We need to find out how many interfaces with contract number listed under Group 1 and appearing in the supportingcontract field

* The lead and supporting interfaces will be different colours in the graph
* The format will be as below with data labels shown below:

Fields needed in Power BI:

|  |  |
| --- | --- |
| **Table** | **Field** |
| CountCon | Contract |
| CountCon | Lead\_Con |
| CountCon | Supp\_Con |

As a reference, the graph is currently set-up in Power BI as below. If you need to change the set-up that is ok:

Item 2

Indicated on figure 1 as 2, shows a table detailing the total number of interfaces with each type of interface status for each contract in group 1.

Logic:

* There will be 2 tables instead of 1
  + Table 1:
    - Will count the interfaces where group 1 contracts are the leading contract and group 1, 2, 3 & 4 contracts are the supporting contracts.
    - Chart

      Description automatically generated
    - The table will show the total number of these interfaces that have each interface status.
    - For example:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Status | Lead Contract | Supporting Contract | Tbl1 |
| 1001 | Draft | Group 1 | Group 2 | Yes |
| 1004 | Draft | Group 1 | Group 1 | Yes |
| 1005 | Agreed | Group 2 | Group 1 | No |

* + - This would show a table:

|  |  |
| --- | --- |
| Interface Status | Count of Interface IDs |
| Draft | 2 |
| Agreed | 0 |
| Escalated | 0 |

Explanation:

We have to create a new column called Tbl1 and mark it as 'Yes' if the Lead contract number matches the list in Group 1 and the Supporting contract number matches any of the lists in Group 1, 2, 3, or 4.

After that, make a table with rows labeled "Interface Status" and columns labeled "Count" which shows how many records have Tbl1 marked as "Yes"

* + Table 2:
    - Will count the interfaces where group 2, 3 & 4 contracts are the leading contract and group 1 contracts are the supporting contracts
    - Chart, box and whisker chart

      Description automatically generated
    - The table will show the total number of these interfaces that have each interface status
    - For example:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Status | Lead Contract | Supporting Contract | Tbl2 |
| 1001 | Draft | Group 1 | Group 2 | No |
| 1005 | Agreed | Group 2 | Group 1 | Yes |

* + - This would show a table:

|  |  |
| --- | --- |
| Interface Status | Count of Interface IDs |
| Draft | 0 |
| Agreed | 1 |
| Escalated | 0 |

Explanation:

We have to create a new column called Tbl2 and mark it as 'Yes' if the Support contract number matches the list in Group 1 and the Lead contract number matches any of the lists in Group 2, 3, or 4.

After that, make a table with rows labeled "Interface Status" and columns labeled "Count" which shows how many records have Tbl2 marked as "Yes"

* The format will be as shown below for each table:

Predicted fields needed in Power BI:

|  |  |
| --- | --- |
| **Table** | **Field** |
| Interface\_Information | Interface\_ID |
| Interface\_Information | Interface\_Status |
| Interface\_Information | Lead\_Con |
| Interface\_Information | Supp\_Con |

## tem 3

Indicated on figure 1 as 3, shows a pie chart detailing the total number of interfaces with each type of risk rating for all interfaces with contracts in group 1 as lead or supporting contracts.

Logic:

* All interfaces where group 1 contracts are either the lead or supporting contract will be included. There will be cases where group 1 contracts are both lead and supporting contracts so double counting must be avoided.
* The number of interfaces with the different risk ratings will be counted.
* The format will be as below with data labels shown below:

Predicted fields needed in Power BI:

|  |  |
| --- | --- |
| **Table** | **Field** |
| Interface\_Information | Interface\_ID |
| Interface\_Information | Risk\_Rating |
| Interface\_Information | Lead\_Con |
| Interface\_Information | Supp\_Con |

## Item 4

Indicated on figure 1 as 4, shows a graph detailing the total number of interfaces that are at different stages of the verification process for each contract in group 1.

Background information:

* This graph is largely based on the information given in the ‘Verification Details’ tab and the logic used to build it.
* Each interface has 3 stages of development:
  + Design
  + Installation
  + T&C
* At each of these stages, contractors create a verification item and add evidence to it.
* Each of these verification items has a review status:
  + Placeholder
  + Open to be reviewed
  + Closed
* Multiple verification items can be linked to a single interface at each stage, e.g. interface 1001 can have 5 verification items at design, 2 at installation and 2 at t&c.

Logic:

* The interfaces counted in this graph will only be interfaces where the lead contract is one of the group 1 contracts and the supporting contract is either group 1,2,3 or 4 contracts.

Explanation:

We need to use a filter to only show Lead contract numbers that match the list in Group 1 and Supporting contract numbers that match any of the lists in Group 1, 2, 3, or 4 by selecting only the rows where Tbl1 is marked as "Yes"

Display the count of records that have some value in the "count of ALL closed + evidence linked" column and represent it as the first bar in the chart

Display the count of records that have some value in the "count of Open + linked evidence " column and represent it as the first bar in the chart

* Display the count of records that have some value in the "count of Others (Placeholders)" column and represent it as the first bar in the chart