



FEI Systems

Connecting Every Dimension of
Health and Human Services

FASAMS Requirements Document

0018_Bed Utilization Exception Report

Created by: Jesse Lindsey

Dated: 2/27/2019

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GENERAL

VERSION CONTROL

Date	Version	Author(s)	Brief Description of Change
12/27/2018	1.0	Tammy Davis	Initial document creation
2/20/2019	1.1	Jesse Lindsey	Document update after JAD
2/25/2019	1.2	Yiwen Ma	FEi Internal Review
2/27/2019	1.3	Yiwen Ma	Added Req. 4 based on Technical Review feedback
3/5/2019	1.4	Sen-Yoni Musingo, Tammy Davis	DCF Review
3/6/2019	1.5	Yiwen Ma	Updated columns names and Facility Type selection (Req. 3.4.2) based on DCF feedback.
3/7/2019	1.6	Yiwen Ma	Updated based on DCF feedback.
3/18/2019	1.7	Yiwen Ma	Updated Requirement 2.1 and 2.2

STAKEHOLDERS

Role	Name
FEI Business Analyst	Jesse Lindsey
FEI Account Manager	Kory Schnoor
DCF SAMH Project Director	Nathan McPherson
DCF SAMH Project Sponsors	Sen-Yoni Musingo / Adam L. Wasserman
DCF Business Analyst	Tammy Davis

SUPPORTING DOCUMENTS AND REFERENCES

- <http://www.dcf.state.fl.us/programs/samh/publications/ACSUDInstructionalManual.pdf>

SCOPE

INITIAL REQUEST & ASSUMPTIONS

Business Statement

According to s.394.875 (9), F.S., occupied beds in crisis stabilization units (CSU) may not exceed their licensed capacity by more than 10 percent, or for more than 3 consecutive working days, or for more than 7 days in one month. It is the responsibility of the managing entity to be in full compliance with this statutory requirement. The system will accept the Bed Utilization Data record and will produce an "Exception Report" showing any CSU bed utilization violation per managing entity and provider. This information may be part of the annual legislative report.

Scope Definition

In scope of this Enhancement, a report will be implemented to calculate the number of licensed beds versus the number of utilized beds by comparing the licensing data from the AHCA/PLADS interface and the Acute Care data submitted from all Submitting Entities, and then identify the cases where the occupied beds exceed the licensed capacity by more

than 10 percent, for more than 3 consecutive days, or for more than 7 days in one month. The report will be run for selected Submitting Entities, Fiscal Year and Month, Facility Types and Age Groups.

Assumptions

1. This report will run on CSU bed utilization data from all submitting entities, including managing entities, DCF-contracted hospitals and DCF-operated hospitals.
2. This report will run on bed utilization data across CSU Acute Care Facility Types, including
 - 1 – Crisis Stabilization Unit (CSU);
 - 5 – Integrated CSU/ARF;
 - 6 – Psychiatric Hospital;
3. Bed Capacity Records and Licensed Beds Records that meet the reporting criteria but cannot be mapped will NOT be included in this report.

EXISTING FUNCTIONALITY

FASAMS currently collects CSU bed utilization data from all Providers per day via the Acute Care dataset submission. All data is validated against the CSU licensed bed capacity that is pulled into FASAMS via the AHCA and PLADS licensing interface.

PROPOSED FUNCTIONALITY

A report titled “CSU Bed Utilization Exception” will be implemented in FASAMS to report CSU bed utilization data against the matched licensing data by the following columns:

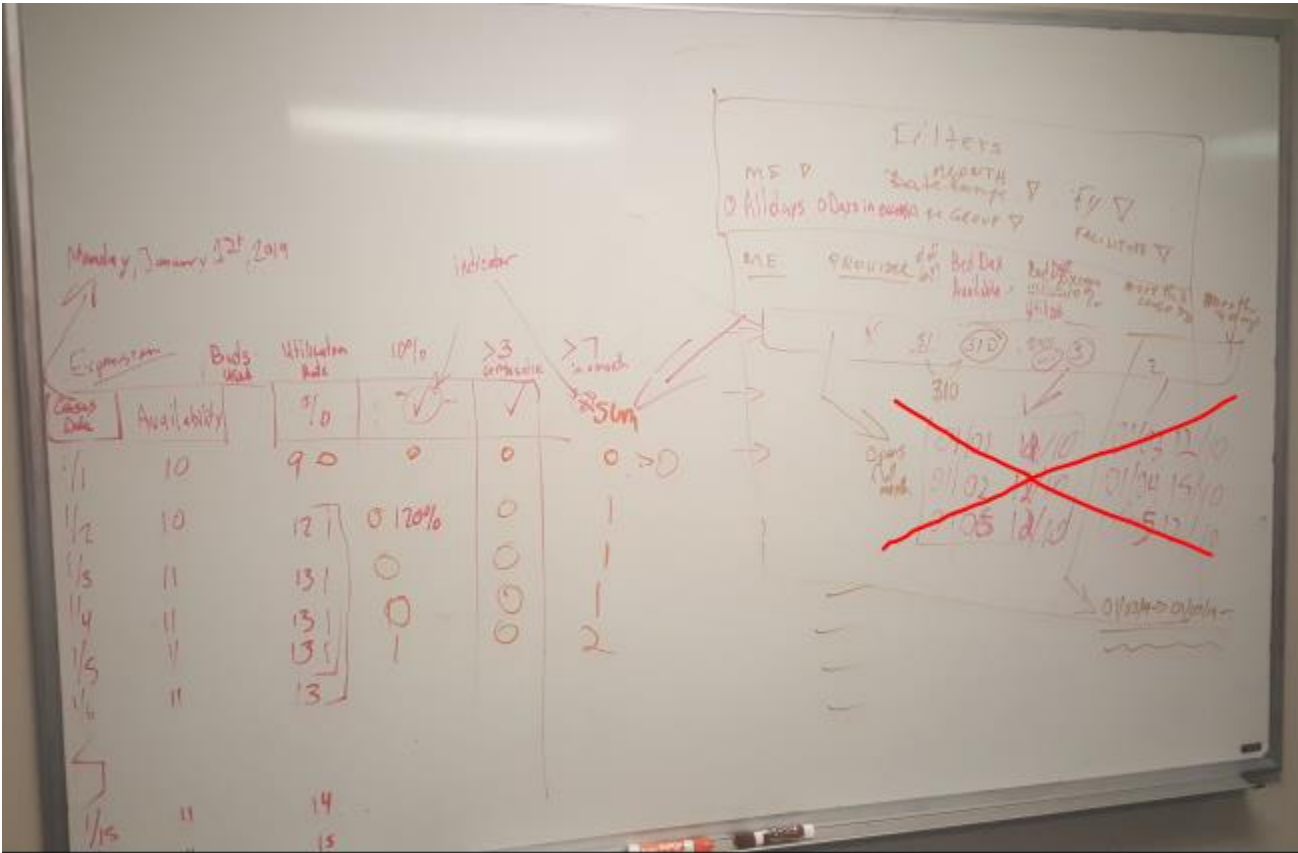
- Submitting Entity/ Provider/ Facility Type - Age Group
- # of Days in the Month
 - The number of calendar days in the selected month
- # of Licensed Bed Days in the Month
 - The total number of licensed beds from all calendar days in the selected month
- Average Daily Census of Licensed Beds
 - The average licensed beds per day in the selected month
- # of Utilized Bed Days in the Month
 - The total number of occupied beds from all calendar days in the selected month
- Average Daily Census of Utilized Beds
 - The average utilized beds per day in the selected month
- # of occurrences where utilized beds exceeded licensed beds by more than 10%
- # of occurrences where utilized beds exceeded licensed beds for more than 3 consecutive working days
- Utilized beds exceeded licensed beds for more than 7 days in the month (Yes/No)

The CSU bed utilization exception data will be reported at multiple levels as below:

- Across Submitting Entity/ State level
- Submitting Entity
- Provider
- Facility Type and Age Group

- Census Day

In addition, users will be able to filter this report by selecting the Submitting Entities, Fiscal Year and Month, Facility Types and Age Groups that they would like to run the report on.



INITIAL ESTIMATE/ QUOTE HISTORY

Phase/ Quote Date	Item(s)	Description	Estimate/ Quote
1/17/19	8360	Initial Estimate	90-180 hours
2/27/19	8360	Final Estimate	Analysis: 60 hours Development: 50 hours Testing: 40 hours Acct/Project Management: 20 hours Total: 170 hours



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REQUIREMENTS

Submitting Entity/ Provider/ Facility Type - Age Group	# of Days in the Month	# of Licensed Bed Days in the Month	Average Daily Census of Licensed Beds	# of Utilized Bed Days in the Month	Average Daily Census of Utilized Beds	# of occurrences where utilized beds exceeded licensed beds by more than 10%	# of occurrences where utilized beds exceeded licensed beds for more than 3 consecutive working days	Utilized beds exceeded licensed beds for more than 7 days in the month
Total	31	6,819	219.97	6,739	217.39	51	9	N/A
[+] Big Bend Community Based Care	31	2,489	80.29	2,789	89.97	34	6	No
[-] Central Florida Behavioral Health Network	31	4,330	139.68	3,950	127.42	17	3	Yes
[-] Peace River Center	31	1,540	49.68	1,457	47.00	9	2	Yes
Crisis Stabilization Unit (CSU) - Mix	31	1,540	49.68	1,457	47.00	9	2	Yes
[-] Mental Health Care	31	2,790	90.00	2,493	80.42	8	1	Yes
Crisis Stabilization Unit (CSU) - Children	31	1,240	40.00	1,036	33.42	4	1	No
Crisis Stabilization Unit (CSU) - Adult	31	1,550	50.00	1,457	47.00	4	0	Yes

Report Mockup

Submitting Entity: Central Florida Behavioral Health Network
 Provider: Peace River Center
 Facility Type: Crisis Stabilization Unit (CSU)
 Age Group: Mix

Census Date	# Licensed Beds	# Utilized Beds	Utilization Rate	Exceeded by more than 10%	Exceeded by more than 3 consecutive working days	Exceeded by more than 7 days in a month
Tuesday, January 1, 2019	100	92	92.00%	No	No	No
Wednesday, January 2, 2019	100	117	117.00%	Yes	No	No
Thursday, January 3, 2019	100	97	97.00%	No	No	No
Friday, January 4, 2019	100	100	100.00%	No	No	No
Saturday, January 5, 2019	100	89	89.00%	No	No	No
Sunday, January 6, 2019	40	53	132.50%	Yes	No	No
Monday, January 7, 2019	40	45	112.50%	Yes	No	No
Tuesday, January 8, 2019	40	45	112.50%	Yes	No	No
Wednesday, January 9, 2019	40	57	142.50%	Yes	Yes	No
Thursday, January 10, 2019	40	38	95.00%	No	No	No
Friday, January 11, 2019	40	35	87.50%	No	No	No
Saturday, January 12, 2019	40	32	80.00%	No	No	No
Sunday, January 13, 2019	40	43	107.50%	No	No	No
Monday, January 14, 2019	40	48	120.00%	Yes	No	No
Tuesday, January 15, 2019	40	49	122.50%	Yes	No	Yes
Wednesday, January 16, 2019	40	41	102.50%	No	Yes	Yes
Thursday, January 17, 2019	40	49	122.50%	Yes	Yes	Yes
Friday, January 18, 2019	40	44	110.00%	No	Yes	Yes
Saturday, January 19, 2019	40	50	125.00%	Yes	Yes	Yes
Sunday, January 20, 2019	40	30	75.00%	No	No	Yes
Monday, January 21, 2019	40	38	95.00%	No	No	Yes
Tuesday, January 22, 2019	40	29	72.50%	No	No	Yes
Wednesday, January 23, 2019	40	34	85.00%	No	No	Yes
Thursday, January 24, 2019	40	0	0.00%	No	No	Yes
Friday, January 25, 2019	40	31	77.50%	No	No	Yes
Saturday, January 26, 2019	40	23	57.50%	No	No	Yes

Sunday, January 27, 2019	40	25	62.50%	No	No	Yes
Monday, January 28, 2019	40	19	47.50%	No	No	Yes
Tuesday, January 29, 2019	40	34	85.00%	No	No	Yes
Wednesday, January 30, 2019	40	40	100.00%	No	No	Yes
Thursday, January 31, 2019	40	30	75.00%	No	No	Yes

Census Day Pop-up Mockup

Note to Developer and QA

A full example of the generation of this report is available [here](#).

Req. ID	Requirement	Dev	QA
1	FASAMS system will have a new report titled "CSU Bed Utilization Exceptions"	<input type="checkbox"/>	<input type="checkbox"/>
2	Report and Data Access		
2.1	<i>Updated on 3/18/2019</i> This report should be placed under the Reports section, Exception folder.	<input type="checkbox"/>	<input type="checkbox"/>
2.2	<i>Updated on 3/18/2019</i> This report should be accessible by all users who have access to the Report tab (with the View Reports permission).	<input type="checkbox"/>	<input type="checkbox"/>
Note	The data in this report does NOT need to be filtered by the current user's Submitting Entity group association, so that everyone can see all data in this report.		<input type="checkbox"/>
3	Report Filtering Users should be able to filter the report using the following parameters:		
3.1	<ul style="list-style-type: none"> Submitting Entity – <i>Multi-Selection Dropdown, Required</i> 	<input type="checkbox"/>	<input type="checkbox"/>
3.1.1	<ul style="list-style-type: none"> <ul style="list-style-type: none"> By default, "(Select All)" should be checked in the dropdown, which auto-checks all options in the dropdown list; 	<input type="checkbox"/>	<input type="checkbox"/>
3.1.2	<ul style="list-style-type: none"> <ul style="list-style-type: none"> Options in the dropdown should list all Submitting Entities in FASAMS. 	<input type="checkbox"/>	<input type="checkbox"/>
3.2	<ul style="list-style-type: none"> Fiscal Year – <i>Single-Selection Dropdown, Required</i> 	<input type="checkbox"/>	<input type="checkbox"/>
3.2.1	<ul style="list-style-type: none"> <ul style="list-style-type: none"> Should list all the state fiscal years that have Acute Care Bed Capacity data in FASAMS (i.e. "2017-18"); 	<input type="checkbox"/>	<input type="checkbox"/>
3.2.2	<ul style="list-style-type: none"> <ul style="list-style-type: none"> The current state fiscal year should be selected by default. <p><u>Note:</u> State Fiscal Years begin on 7/1 and end on 6/30 of the year after.</p>	<input type="checkbox"/>	<input type="checkbox"/>
3.3	<ul style="list-style-type: none"> Month – <i>Single-Selection Dropdown, Required</i> 	<input type="checkbox"/>	<input type="checkbox"/>
3.3.1	<ul style="list-style-type: none"> <ul style="list-style-type: none"> Should populate the following options: <ul style="list-style-type: none"> January February March April May 	<input type="checkbox"/>	<input type="checkbox"/>

Req. ID	Requirement	Dev	QA										
	<ul style="list-style-type: none"> ▪ June ▪ July ▪ August ▪ September ▪ November ▪ December 												
3.3.2	<ul style="list-style-type: none"> ○ The prior month should be selected by default. 	<input type="checkbox"/>	<input type="checkbox"/>										
3.4	<ul style="list-style-type: none"> • Facility Type – <i>Multi-Selection Dropdown, Required</i> 	<input type="checkbox"/>	<input type="checkbox"/>										
3.4.1	<ul style="list-style-type: none"> ○ By default, “(Select All)” should be checked in the dropdown, which auto-checks all options in the dropdown list; 	<input type="checkbox"/>	<input type="checkbox"/>										
3.4.2	<ul style="list-style-type: none"> ○ Options in this dropdown should be pulled from the Vocabulary Value Set List ‘Acute Care Facility Type’ of the latest version and be sorted by the display name. The options should contain only the following CSU values: <ul style="list-style-type: none"> ▪ Crisis Stabilization Unit (CSU); ▪ Integrated CSU/ARF ▪ Psychiatric Hospital; 	<input type="checkbox"/>	<input type="checkbox"/>										
3.5	<ul style="list-style-type: none"> • Age Group – <i>Multi-Selection Dropdown, Required</i> 	<input type="checkbox"/>	<input type="checkbox"/>										
3.5.1	<ul style="list-style-type: none"> ○ By default, “(Select All)” should be checked in the dropdown, which auto-checks all options in the dropdown list 	<input type="checkbox"/>	<input type="checkbox"/>										
3.5.2	<ul style="list-style-type: none"> ○ Options in this dropdown should be pulled from the Vocabulary Value Set List ‘Acute Care Age Group’ of the latest version and be sorted by the display name. 	<input type="checkbox"/>	<input type="checkbox"/>										
4	<p>Report Layout - Once generated, the report should contain the following items:</p> <ul style="list-style-type: none"> • Report Title: “CSU Bed Utilization Exceptions” • Report Criteria – lists all criteria that the report is run on (Req. 3) • Report Table (Req. 8) • The date and time when the report was generated: “Data as of <date and time>” 	<input type="checkbox"/>	<input type="checkbox"/>										
5	<p>Record Selection</p> <p><u>Note</u>: This report should be run based on the Acute Care <u>Bed Capacity</u> records from Submitting Entities and their matched <u>Licensed Bed</u> data from AHCA and PLADS.</p>												
5.1	<p>This report should pull the <u>Bed Capacity</u> records that meet all criteria below:</p> <ul style="list-style-type: none"> • Should match selected Submitting Entities, Facility Types and Age Groups; • Should represent the data that was effective in the selected state fiscal year and month, for the same Provider, Facility Type and Age Group; <p>For example, both two Mental Health Care records below should be pulled when running this report for Central Florida Behavioral Health Network, 2018-2019, January:</p> <table border="1"> <thead> <tr> <th>Submitting Entity</th> <th>Provider</th> <th>Facility Type</th> <th>Age Group</th> <th>Effective Date</th> </tr> </thead> <tbody> <tr> <td>Central Florida Behavioral Health Network</td> <td>Mental Health Care</td> <td>Crisis Stabilization Unit (CSU)</td> <td>Adult</td> <td>7/1/2018</td> </tr> </tbody> </table>	Submitting Entity	Provider	Facility Type	Age Group	Effective Date	Central Florida Behavioral Health Network	Mental Health Care	Crisis Stabilization Unit (CSU)	Adult	7/1/2018	<input type="checkbox"/>	<input type="checkbox"/>
Submitting Entity	Provider	Facility Type	Age Group	Effective Date									
Central Florida Behavioral Health Network	Mental Health Care	Crisis Stabilization Unit (CSU)	Adult	7/1/2018									

Req. ID	Requirement	Dev	QA																																																																							
	<table border="1"> <tr> <td>Central Florida Behavioral Health Network</td> <td>Mental Health Care</td> <td>Crisis Stabilization Unit (CSU)</td> <td>Adult</td> <td>1/15/2019</td> </tr> </table> <ul style="list-style-type: none"> Should be marked as not deleted (IsEntityDeleted = 0) 	Central Florida Behavioral Health Network	Mental Health Care	Crisis Stabilization Unit (CSU)	Adult	1/15/2019																																																																				
Central Florida Behavioral Health Network	Mental Health Care	Crisis Stabilization Unit (CSU)	Adult	1/15/2019																																																																						
5.2	<p>This report should pull the <u>Licensed Bed</u> records (ProviderLicensingInformation) that meet all criteria below:</p> <ul style="list-style-type: none"> License Effective Date <= the last day of the selected Month License Expiration Date > the first day of the selected Month 	<input type="checkbox"/>	<input type="checkbox"/>																																																																							
6	<p>Mapping a Licensed Bed record to a Bed Capacity record</p> <p><u>Note:</u> This report will compare a provider's actual bed utilization to what it is authorized to by the licenses. Therefore, each Licensed Bed record should be mapped to a Bed Capacity record first in order to do the comparison.</p>																																																																									
6.1	<p>A <u>Licensed Bed</u> record should be mapped to a <u>Bed Capacity</u> record by its Provider, Data Source, Licensed Facility Type, Licensed Service Type and Licensed Bed Type using the "9.36.3 Facility and Age Group Mapping" table from FASAMS Functional Design Document – Stage 3.</p> <p>Example Licensed Bed records:</p> <table border="1"> <thead> <tr> <th>#</th> <th>Provider</th> <th>Data Source</th> <th>License Number</th> <th>License Facility Type</th> <th>License Service Type</th> <th>License Bed Type</th> <th>Licensed Bed Count</th> </tr> </thead> <tbody> <tr> <td>L11</td> <td>Peace River Center</td> <td>AHCA</td> <td>1480</td> <td>CSU/ Short Term RTF</td> <td>Adult CSU</td> <td></td> <td>35</td> </tr> <tr> <td>L12</td> <td>Peace River Center</td> <td>AHCA</td> <td>1480</td> <td>CSU/ Short Term RTF</td> <td>Child CSU</td> <td></td> <td>25</td> </tr> <tr> <td>L21</td> <td>Baptist Hospital</td> <td>AHCA</td> <td>4456</td> <td>Hospital</td> <td></td> <td>Adult Psychiatric</td> <td>64</td> </tr> </tbody> </table> <p>Example Bed Capacity records:</p> <table border="1"> <thead> <tr> <th>#</th> <th>Provider</th> <th>Facility Type</th> <th>Age Group</th> <th>Operational Bed Count</th> </tr> </thead> <tbody> <tr> <td>B1</td> <td>Peace River Center</td> <td>Crisis Stabilization Unit (CSU)</td> <td>Mix</td> <td>100</td> </tr> <tr> <td>B2</td> <td>Baptist Hospital</td> <td>Psychiatric Hospital</td> <td>Adult</td> <td>60</td> </tr> </tbody> </table> <p>Example mappings:</p> <table border="1"> <thead> <tr> <th colspan="2">Bed Capacity Records</th> <th colspan="4">Licensed Bed Records</th> </tr> <tr> <th>Facility Type</th> <th>Age Group</th> <th>Data Source</th> <th>Licensed Facility Type</th> <th>License Service Type</th> <th>License Bed Type</th> </tr> </thead> <tbody> <tr> <td>Crisis Stabilization Unit (CSU)</td> <td>Mix</td> <td>AHCA</td> <td>CSU/ Short Term RTF</td> <td>Adult CSU, Child CSU</td> <td>N/A</td> </tr> <tr> <td>Psychiatric Hospital</td> <td>Adult</td> <td>AHCA</td> <td>Hospital</td> <td>N/A</td> <td>Adult Psychiatric</td> </tr> </tbody> </table>	#	Provider	Data Source	License Number	License Facility Type	License Service Type	License Bed Type	Licensed Bed Count	L11	Peace River Center	AHCA	1480	CSU/ Short Term RTF	Adult CSU		35	L12	Peace River Center	AHCA	1480	CSU/ Short Term RTF	Child CSU		25	L21	Baptist Hospital	AHCA	4456	Hospital		Adult Psychiatric	64	#	Provider	Facility Type	Age Group	Operational Bed Count	B1	Peace River Center	Crisis Stabilization Unit (CSU)	Mix	100	B2	Baptist Hospital	Psychiatric Hospital	Adult	60	Bed Capacity Records		Licensed Bed Records				Facility Type	Age Group	Data Source	Licensed Facility Type	License Service Type	License Bed Type	Crisis Stabilization Unit (CSU)	Mix	AHCA	CSU/ Short Term RTF	Adult CSU, Child CSU	N/A	Psychiatric Hospital	Adult	AHCA	Hospital	N/A	Adult Psychiatric	<input type="checkbox"/>	<input type="checkbox"/>
#	Provider	Data Source	License Number	License Facility Type	License Service Type	License Bed Type	Licensed Bed Count																																																																			
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Req. ID	Requirement	Dev	QA
	<p>Based on the three mappings above, both L11 and L12 should be mapped to B1, and L21 should be mapped to B2.</p> <p><u>Note:</u> The Licensed Bed record from AHCA/PLADS do not contain submitting entity information. Therefore, in the situation where one Provider sub-contracts with more than one Submitting Entities, this Provider could have different Bed Capacity records with the same Facility Type and Age Group from different Submitting Entities. All Bed Capacity records will be mapped to the same set of Licensed Bed records, and therefore these licensed beds will be counted more than once under each mapped submitting entity in this report.</p>		
6.2	<p>Each row in the mapping table should be understood as below:</p> <p>Among all <u>Licensed Bed</u> records with the same Provider, Data Source, License Number and Licensed Facility Type, if there exist records with all License Service Types or License Bed Type listed in the mapping and only records with these types, then all these <u>Licensed Bed</u> records should be mapped to the one or multiple^[1] <u>Bed Capacity</u> records of the same Provider and with the corresponding Facility Type and Age Group, and should be represented in the report as ONE row at Facility Type – Age Group level (Req. 8.4).</p> <p>^[1] One Licensed Bed record could be mapped to the two BedCapacity records in the example in Req 5.1, because these two BedCapacity records presenting data that are valid during different timespan.</p>	<input type="checkbox"/>	<input type="checkbox"/>
7	<p>The following daily metrics must be calculated <u>per Submitting Entity, Provider, Facility Type and Age Group combination</u> first in order to generate this report:</p> <p><u>Note:</u> These values will later be displayed in the Census Day pop-ups (Req. 8.5)</p>	<input type="checkbox"/>	<input type="checkbox"/>
7.1	<p># Licensed Beds – For each calendar day in the selected month, calculate the total licensed bed count. It should be the sum of the LicensedBedCount of the ProviderLicensingInformation records that are effective on the calendar day: <i>License Effective Date <= selected calendar date < License Expiration Date</i></p> <p><u>Note:</u> # Licensed Beds could be 0 for a date in the selected month, when queried licenses’ effective time ranges do not cover that date.</p>	<input type="checkbox"/>	<input type="checkbox"/>
7.2	<p># Utilized Beds – For each calendar day in the selected month, calculate the total utilized bed count. It should be the sum of all PayorClassBedOccupancy.OccupiedBedCounts reported for the BedUtilization.CensusDate that equals the calendar day.</p> <ul style="list-style-type: none"> The BedUtilization used must be associated to the BedCapacity that was effective on the selected calendar day – Its Effective Date is earlier than or on this calendar day and there is no other BedCapacity record for the same Provider, Facility Type and Age Group that has a more recent Effective Date that is earlier than or on this calendar day. 	<input type="checkbox"/>	<input type="checkbox"/>

Req. ID	Requirement	Dev	QA
	<ul style="list-style-type: none"> If there is no census data (BedUtilization) reported for a calendar day, count the number of utilized beds as zero. 		
7.3	Utilization Rate – For each calendar day in the selected month, calculate the percentage of utilized beds among the all licensed beds. It should be calculated as $\# \text{ Utilized Beds} / \# \text{ Licensed Beds} * 100\%$. <ul style="list-style-type: none"> “N/A” should be displayed when # Licensed Beds is zero. 	<input type="checkbox"/>	<input type="checkbox"/>
7.4	Exceeds 10% (Yes/No) – For each calendar day in the selected month, determine if the utilized beds have exceeded the licensed number by 10%. It should be determined by verifying if the calculated % <i>Utilized Beds</i> is larger than 110%.	<input type="checkbox"/>	<input type="checkbox"/>
8	Rows, Drilling and Columns The report will display bed utilization data at the following levels: <ul style="list-style-type: none"> Across Contracted Entities / State Contracted Entity Provider Facility Type and Age Group Census Day , and by the following columns: <ul style="list-style-type: none"> “Submitting Entity/ Provider/ Facility Type – Age Group” “# of Days in the Month” “# of Licensed Bed Days in the Month” “Average Daily Census of Licensed Beds” “# of Utilized Bed Days in the Month” “Average Daily Census of Utilized Beds” “# of occurrences where utilized beds exceeded licensed beds by more than 10%” “# of occurrences where utilized beds exceeded licensed beds for more than 3 consecutive working days” “Utilized beds exceeded licensed beds for more than 7 days in the month” 		
8.1	Across Submitting Entities / State level <ul style="list-style-type: none"> The report should have a “Total” row at the top; This row should roll up the selected Submitting Entities’ values (Req. 8.2) in these columns: <ul style="list-style-type: none"> # of Licensed Bed Days in the Month # of Utilized Bed Days in the Month # of occurrences where utilized beds exceeded licensed beds by more than 10% # of occurrences where utilized beds exceeded licensed beds for more than 3 consecutive working days “Average Daily Census of Licensed Beds” – this column should be calculated as $\# \text{ of Licensed Bed Days in the Month} / \# \text{ of Days in the Month}$ (Req. 8.7) “Average Daily Census of Utilized Beds” – this column should be calculated as $\# \text{ of Utilized Bed Days in the Month} / \# \text{ of Days in the Month}$ (Req. 8.7) 	<input type="checkbox"/>	<input type="checkbox"/>

Req. ID	Requirement	Dev	QA
	<ul style="list-style-type: none"> • “N/A” should be displayed in the column “Utilized beds exceeded licensed beds for more than 7 days in the month”. 		
8.2	Submitting Entity level <ul style="list-style-type: none"> • By default, each row in the table should display the bed utilization data for each selected Submitting Entity; • Each Submitting Entity row should roll up its Providers’ values (Req. 8.3) in these columns: <ul style="list-style-type: none"> ○ # of Licensed Bed Days in the Month ○ # of Utilized Bed Days in the Month ○ # of occurrences where utilized beds exceeded licensed beds by more than 10% ○ # of occurrences where utilized beds exceeded licensed beds for more than 3 consecutive working days • “Average Daily Census of Licensed Beds” – this column should be calculated as # of Licensed Bed Days in the Month / # of Days in the Month (Req. 8.7) • “Average Daily Census of Utilized Beds” – this column should be calculated as # of Utilized Bed Days in the Month / # of Days in the Month (Req. 8.7) • “Yes” should be displayed in the column “Utilized beds exceeded licensed beds for more than 7 days in the month”, if at least one of its Provider has “Yes” in the same column; otherwise, “No” should be displayed. • If a selected Submitting Entity has no data found, this Submitting Entity should still be listed in the table, with “N/A” displayed across all columns. 	<input type="checkbox"/>	<input type="checkbox"/>
8.3	Provider level <ul style="list-style-type: none"> • Each Submitting Entity should be expandable to show its Providers in separate rows; • Each Provider row should roll up its Facility Type – Age Group rows’ values (Req. 8.4) in these columns: <ul style="list-style-type: none"> ○ # of Licensed Bed Days in the Month ○ # of Utilized Bed Days in the Month ○ # of occurrences where utilized beds exceeded licensed beds by more than 10% ○ # of occurrences where utilized beds exceeded licensed beds for more than 3 consecutive working days • “Average Daily Census of Licensed Beds” – this column should be calculated as # of Licensed Bed Days in the Month / # of Days in the Month (Req. 8.7) • “Average Daily Census of Utilized Beds” – this column should be calculated as # of Utilized Bed Days in the Month / # of Days in the Month (Req. 8.7) • “Yes” should be displayed in the column “Utilized beds exceeded licensed beds for more than 7 days in the month”, if at least one of its Facility Type – Age Group row has “Yes” in the same column; otherwise, “No” should be displayed. • When a Submitting Entity is expanded, all its Providers (current subcontracted Providers for Managing Entities) should be listed. If a Provider has no data found, this Provider should still be shown, with “N/A” displayed across all columns. 	<input type="checkbox"/>	<input type="checkbox"/>

Req. ID	Requirement	Dev	QA
8.4	Facility Type and Age Group level <ul style="list-style-type: none"> Each Provider should be expandable to show its different Facility Type and Age Group combination pulled from its BedCapacity records. Each Facility Type – Age Group row should display the following calculated data in separate columns. These data will be calculated based on the daily metrics of the corresponding Submitting Entity, Provider, Facility Type and Age Group combination. 	<input type="checkbox"/>	<input type="checkbox"/>
8.4.1	<ul style="list-style-type: none"> “# of Licensed Bed Days in the Month” Column – should be calculated as the sum of the # Licensed Beds (Req. 7.1) of all calendar days in the selected month. 	<input type="checkbox"/>	<input type="checkbox"/>
8.4.2	<ul style="list-style-type: none"> “Average Daily Census of Licensed Beds” – this column should be calculated as # of Licensed Bed Days in the Month / # of Days in the Month (Req. 8.7) 	<input type="checkbox"/>	<input type="checkbox"/>
8.4.3	<ul style="list-style-type: none"> “# of Utilized Bed Days in the Month” Column – should be calculated as the sum of the # Utilized Beds (Req. 7.2) of all calendar days in the selected month. 	<input type="checkbox"/>	<input type="checkbox"/>
8.4.4	<ul style="list-style-type: none"> “Average Daily Census of Utilized Beds” – this column should be calculated as # of Utilized Bed Days in the Month / # of Days in the Month (Req. 8.7) 	<input type="checkbox"/>	<input type="checkbox"/>
8.4.5	<ul style="list-style-type: none"> “# of occurrences where utilized beds exceeded licensed beds by more than 10%” Column – should count the days in the selected month where its Exceeds 10% (Req. 7.4) is “Yes”. 	<input type="checkbox"/>	<input type="checkbox"/>
8.4.6	<ul style="list-style-type: none"> “# of occurrences where utilized beds exceeded licensed beds for more than 3 consecutive working days” – should count all occurrences in the selected month where Utilization Rate (Req. 7.3) is larger than 100% for more than (>) 3 consecutive days. If a facility exceeds bed capacity for 7 straight days, this would only count as one occurrence. 	<input type="checkbox"/>	<input type="checkbox"/>
8.4.7	<ul style="list-style-type: none"> “Utilized beds exceeded licensed beds for more than 7 days in the month” – should show “Yes” if there are more than (>) 7 days with a Utilization Rate (Req. 7.3) larger than 100%; otherwise, it should show “No”. 	<input type="checkbox"/>	<input type="checkbox"/>
8.5	Census Day level – Each Facility Type-Age Group row can be clicked on to show a pop-up with all bed utilization data for the month selected with the following columns: <ul style="list-style-type: none"> “Census Date” – should list all calendar days in the selected month; should show the day of the week first, i.e. “Monday, January 1st, 2019”; “# Licensed Beds” - # Licensed Beds (Req. 7.1) “# Utilized Beds” - # Utilized Beds (Req. 7.2) “Utilization Rate” – Utilization Rate (Req. 7.3); should be shown as a percentage value, i.e. 98.33%; “Exceeded by more than 10%” – Exceeds 10% (Req. 7.4); should display “Yes” or “No” accordingly. “Exceeded by more than 3 consecutive working days” – should display “Yes” if the Utilization Rate of all three prior Census Dates are above 100%; otherwise, “No” should be displayed. “Exceeded by more than 7 days in a month” – should show “No” starting from the first Census Date of the month, and then changed to “Yes” starting from the eighth day where the Utilization Rate is larger than 100%. 	<input type="checkbox"/>	<input type="checkbox"/>
8.5.1	<ul style="list-style-type: none"> A Census Day row should be highlighted if its Utilization Rate is larger than 100%. 	<input type="checkbox"/>	<input type="checkbox"/>

Req. ID	Requirement	Dev	QA
8.5.2	<ul style="list-style-type: none"> • The following information should be displayed at the top of each pop-up <ul style="list-style-type: none"> ○ Submitting Entity: <Submitting Entity Name> ○ Provider: <Provider Name> ○ Facility Type: <Facility Type> ○ Age Group: <Age Group> 	<input type="checkbox"/>	<input type="checkbox"/>
8.6	“Submitting Entity/ Provider/ Facility Type - Age Group” Column – Should display “Total”, name of the Submitting Entity, Provider or Facility Type and Age Group.	<input type="checkbox"/>	<input type="checkbox"/>
8.7	“# of Days in the Month” Column – Should display the number of calendar days in the selected month. <u>Note:</u> The values in this column will be the same across all reporting levels and rows.	<input type="checkbox"/>	<input type="checkbox"/>