Title:	CLUWE Web Tool Validation Release Summary Report Release 4.0

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TITLE: CLINICAL USER WORKING ENVIRONMENT (CLUWE) WEB TOOL VALIDATION RELEASE SUMMARY REPORT RELEASE 4.0

REVIEWERS

Your electronic signature indicates that you have reviewed this document and that for your area of expertise, agree it is accurate and complete.

- Business Subject Matter Expert (SME)
- IT SME
- Quality Consultant
- Test Lead

APPROVERS

System Custodian

Your electronic signature attests that the appropriate persons involved in the validation process reviewed the document to ensure the report is accurate and complete and that the system is ready for production use.

System Owner

Your electronic signature attests that all activities specified in the validation plan have either been completed or documented in the report as outstanding issues with accompanying action plans, you understand the risks associated with all outstanding issues and that the system is ready for production use.

Computer System Quality Assurance Representative

Your electronic signature attests that this document complies with Corporate Computer Systems (CCS) Lilly Quality Standards and Practices.

TITLE: CLINICAL USER WORKING ENVIRONMENT (CLUWE) WEB TOOL VALIDATION RELEASE SUMMARY REPORT RELEASE 4.0

PURPOSE

This Validation Report for the Clinical User Working Environment (CLUWE) Web Tool system summarizes completion of validation activities for this specific release. The completion of this document, with appropriate signatures, indicates that the system is validated and satisfies the validation requirements as defined by Lilly Quality Standard: *Computer Systems and Electronic Records; Electronic Signatures* (LQS 302) and as outlined in the Validation Plan for this system.

SCOPE

Validation of Clinical User Working Environment (CLUWE) Web Tool as defined in CHG#CHG1092912

ACRONYMS AND DEFINITIONS

The terms and acronyms in this document are defined at their first occurrence.

DOCUMENT REVISION HISTORY

Version	Revision Date	Reason for Revision (Include CR# if Applicable)	Revised By, Title
0	14-Sep-2017	New Document	Christopher Sheppard, Quality Consultant Aditi Sharma, Test Lead

Table of Contents

1.   RELEASE SUMMARY

1.1   Summary of changes made

There were 5 (five) changes made for Release 4.0, one of which was a database only change and will not be seen by the end user. The changes for 4.0 are:

1. The ability to abort a scheduled program that is running on the grid
2. The ability to select programs from the Schedule's Status list for scheduling
3. Automated versioning of program generated files that are created within the **Output and Log folders (i.e. TFLs, logs)**.
4. A change to the date control when scheduling in future
5. (database change) Storing the cluster and artifact ID for all artifacts in the database.

These changes are fully described in the change request - CHG1092912.

1.2   Configuration Impacted

The CLUWE Configuration was not impacted for release 4.0.

1.3   Code Modules Modified

Modified Code modules are detailed within the source code reviews in GITHUB at path:

https://github.com/EliLillyCo/GSS_LRLIT_CLUWE-WebTool/pulls?utf8=%E2%9C%93&q=is%3Apr%20base%3Ar4.0%20is%3Aclosed%20is%3Amerged

2.   VALIDATION SUMMARY

2.1   Validation Deliverables

A review of the completed base validation deliverables was conducted by the quality representative.

Following is a list of the approved deliverables for this release.

Validation Deliverable	Verified By	Location
Source Code Review	Christopher Sheppard	GITHUB
Validation Release Summary Report (this document)	N/A	N/A

The following deliverables were updated and reviewed as part of this release:

Validation Deliverable	Verified By	Location
Requirements (User Stories)	Christopher Sheppard	HP ALM
Design Specifications	Christopher Sheppard	Regulus
Test Cases/Scripts	Christopher Sheppard	HP ALM , Regulus
Security Plan	Christopher Sheppard	Regulus
System Overview	Christopher Sheppard	Regulus
Traceability Matrix	Christopher Sheppard	HP ALM
CLUWE Web Tool R4 UAT Results 1-Sep 2017	Christopher Sheppard	Regulus

2.2   Risk Status

There were no risks identified for this release.

2.3   Departures from the Master Validation Plan for this Release

Departure	Justification
Configuration Specifications not updated	No updates were required for this release.
Source code and source code reviews are now stored in GITHUB instead of TFS and HP ALM	A decision was made after R3.0 to move code to GITHUB for more flexibility, features, and lower cost.
IVI was not updated	The IVI did not require updates for Release 4.0

2.4   Outstanding Issues

There are no outstanding validation issues.

2.5   Validation Status

Clinical User Working Environment (CLUWE) Web Tool is now validated and ready for production use

3.   TEST SUMMARY

Testing activities were performed in accordance with the *CLUWE Web Tool Master Validation and Test Plan*. The overall results of all levels of testing have passed with noted problems. The problems noted are documented in the Test Problem Report Summary section. These problems do not affect the reliability of the system or accuracy of the information the system handles, and they do not put the business process at risk.

3.1   Test Environment

Testing was conducted in the planned Quality Assurance (QA) environment as documented in the *CLUWE Web Tool Master Validation and Test Plan.*

3.2   System configuration Used for Testing

CLUWE Web Tool was hosted in the QA environment. The following URL was used for Testing:

Formal Testing: https://cluwe-q.am.lilly.com

Informal Testing: https://cluwe-d.am.lilly.com

3.3   Test Levels Executed

The following table describes levels of testing executed during the development and testing of Release 4.0

Test Level	Environment	Date Completed	Execution Summary / Overall Results
Unit	Development	08/2/2017	Testing was completed by development team and the results were not documented and defects were not tracked as per the *CLUWE Web Tool Master Validation and Test Plan*
System	Quality Assurance	8/30/2017	Formal System Testing was completed by IT testing team and the results were documented formally in HP ALM. Defects were tracked in HP ALM

Test Level	Environment	Date Completed	Execution Summary / Overall Results
User Acceptance	Quality Assurance	9/7/2017	Acceptance Testing was performed by Business team in QA Environment Defects were tracked in HP ALM.
Regression	Quality Assurance	9/5/2017	Formal Regression Testing was completed by IT testing team and the results were documented formally in HP ALM. Defects were tracked in HP ALM

3.4   Test Documents Executed

The following table lists the test cases that were executed during Formal System Testing, Regression Testing and User Acceptance Testing. Additional details of System Testing and Regression Testing were available in the Test Lab module of HP ALM and User Acceptance details were available in Regulus.

- Overall execution status indicates whether the cumulative test runs of the test cases passed or failed.
- Summary status indicates the status of post execution reviews of test runs of the test case.

3.4.1 System Testing:

Test Lab→ Root→ CLUWE→ CLUWE_Milestone 4_R4.0→Formal_CLUWE_System_Level Testing R4.0

Test Level	Test Name	Overall Execution Status (Pass/Fail)	Summary Status (e.g. Approval Complete)	Execution Comments
System Testing	TS58-Abort Program	Passed	8-Approval Complete	Test Case was executed successfully
System Testing	TS59-Schedule_From_Previous_Run	Passed	8-Approval Complete	Test Case was executed successfully
System Testing	TS60-CLUWE_Req_0075	Passed	8-Approval Complete	Test Case was executed successfully
System Testing	TS61-Problem_Fix_PRB0023387	Passed	8-Approval Complete	Test Case was executed successfully
System Testing	TS62- Abort_Program	Passed	8-Approval Complete	Test Case was executed successfully
System Testing	TS63-Schedule_From_Previous_Run	Passed	8-Approval Complete	Test Case was executed successfully
System Testing	TS64- Signature	Passed	8-Approval Complete	Test Case was executed successfully

3.4.2 System AVA Testing

Test Lab→ Root→ CLUWE→ CLUWE_AVA_Testing → Formal_AVA_Regression

Test Level	Test Name	Overall Execution Status (Pass/Fail)	Summary Status (e.g. Approval Complete)	Execution Comments
System Testing	AVA - Test Case 01	Passed	8-Approval Complete	Test Case was executed successfully
System Testing	AVA - Test Case 01a	Passed	8-Approval Complete	Test Case was executed successfully
System Testing	AVA - Test Case 02	Passed	8-Approval Complete	Test Case was executed successfully
System Testing	AVA - Test Case 03	Passed	8-Approval Complete	Test Case was executed successfully
System Testing	AVA - Test Case 04	Passed	8-Approval Complete	Test Case was executed successfully
System Testing	AVA - Test Case 06	Passed	8-Approval Complete	Test Case was executed successfully
System Testing	AVA - Test Case 06a	Passed	8-Approval Complete	Test Case was executed successfully
System Testing	AVA - Test Case 07	Passed	8-Approval Complete	Test Case was executed successfully
System Testing	AVA - Test Case 08	Passed	8-Approval Complete	Test Case was executed successfully
System Testing	AVA - Test Case 09	Passed	8-Approval Complete	Test Case was executed successfully
System Testing	AVA - Test Case 10	Passed	8-Approval Complete	Test Case was executed successfully
System Testing	AVA - Test Case 12	Passed	8-Approval Complete	Test Case was executed successfully
System Testing	AVA - Test Case 13	Passed	8-Approval Complete	Test Case was executed successfully
System Testing	AVA - Test Case 14	Passed	8-Approval Complete	Test Case was executed successfully
System Testing	AVA - Test Case 15	Passed	8-Approval Complete	Test Case was executed successfully
System Testing	AVA - Test Case 16	Passed	8-Approval Complete	Test Case was executed successfully
System Testing	AVA - Test Case 17	Passed	8-Approval Complete	Test Case was executed successfully
System Testing	AVA - Test Case 19	Passed	8-Approval Complete	Test Case was executed successfully
System Testing	AVA Services Down	Passed	8-Approval Complete	Test Case was executed successfully
System Testing	AVA Switch Off	Passed	8-Approval Complete	Test Case was executed successfully

Test Level	Test Name	Overall Execution Status (Pass/Fail)	Summary Status (e.g. Approval Complete)	Execution Comments
System Testing	Lock Service is Down	Passed	8-Approval Complete	Test Case was executed successfully
System Testing	Multiple Services Down	Passed	8-Approval Complete	Test Case was executed successfully
System Testing	Version Service is Down	Passed	8-Approval Complete	Test Case was executed successfully
System Testing	Compare files between PRD and QA branch	Passed	8-Approval Complete	Test Case was executed successfully

3.4.3 Regression Testing:

Test Lab→ Root→ CLUWE→ AUTOMATIOM→ CLUWE_REGRESSION_R4.0

Test Level	Test Name	Overall Execution Status (Pass/Fail)	Summary Status (e.g. Approval Complete)	Execution Comments
Regression Testing	CLUWE_REGRESSION_INFO-FAVORITES_V_1.0	Passed	8-Approval Complete	Test Case was executed successfully
Regression Testing	CLUWE_REGRESSION_JOB-SCHEDULING_ABORT_V_1.0	Passed	8-Approval Complete	Test Case was executed successfully
Regression Testing	CLUWE_REGRESSION_LIP_POST-LOCK_V_1.0	Passed	8-Approval Complete	Test Case was executed successfully
Regression Testing	CLUWE_REGRESSION_LIP_PRE-LOCK_V_1.0	Passed	8-Approval Complete	Test Case was executed successfully
Regression Testing	CLUWE_REGRESSION_JOB-SCHEDULING_COMPLETE_V_1.0	Passed	8-Approval Complete	Test Case was executed successfully
Regression Testing	CLUWE_REGRESSION_JOB-SCHEDULING_NON-SAS_V_1.0	Passed	8-Approval Complete	Test Case was executed successfully
Regression Testing	CLUWE_REGRESSION_VERSIONING_PRE-VERSION_V_1.0	Passed	8-Approval Complete	Test Case was executed successfully
Regression Testing	CLUWE_REGRESSION_VERSIONING_POST-VERSION_V_1.0	Passed	8-Approval Complete	Test Case was executed successfully
Regression Testing	CLUWE_REGRESSION_E-SIGNATURE_TIME-ZONE_V_1.0	Passed	8-Approval Complete	Test Case was executed successfully
Regression Testing	CLUWE_REGRESSION_E-SIGNATURE_LILLY-NET-ID_V_1.0	Passed	8-Approval Complete	Test Case was executed successfully
Regression Testing	CLUWE_REGRESSION_E-SIGNATURE_PRINT-PREVIEW_V_1.0	Passed	8-Approval Complete	Test Case was executed successfully

3.4.4 Acceptance Testing:

Test Level	Test Name	Overall Execution Status (Pass/Fail)	Summary Status (e.g. Approval Complete)	Execution Comments
Acceptance Testing	AVA - Test Case 1	Passed	Approved	Test Case was executed successfully
Acceptance Testing	AVA - Test Case 1a	Passed	Approved	Test Case was executed successfully
Acceptance Testing	AVA - Test Case 2	Passed	Approved	Test Case was executed successfully
Acceptance Testing	AVA - Test Case 3	Passed	Approved	Test Case was executed successfully
Acceptance Testing	AVA - Test Case 4	Passed	Approved	Test Case was executed successfully
Acceptance Testing	AVA - Test Case 6	Passed	Approved	Test Case was executed successfully
Acceptance Testing	AVA - Test Case 6a	Passed	Approved	Test Case was executed successfully
Acceptance Testing	AVA - Test Case 7	Passed	Approved	Test Case was executed successfully
Acceptance Testing	AVA - Test Case 8	Passed	Approved	Test Case was executed successfully
Acceptance Testing	AVA - Test Case 9	Passed	Approved	Test Case was executed successfully
Acceptance Testing	AVA - Test Case 10	Passed	Approved	Test Case was executed successfully
Acceptance Testing	AVA - Test Case 12	Passed	Approved	Test Case was executed successfully
Acceptance Testing	AVA - Test Case 13	Passed	Approved	Test Case was executed successfully
Acceptance Testing	AVA - Test Case 14	Passed	Approved	Test Case was executed successfully
Acceptance Testing	AVA - Test Case 15	Passed	Approved	Test Case was executed successfully
Acceptance Testing	AVA - Test Case 16	Passed	Approved	Test Case was executed successfully
Acceptance Testing	AVA - Test Case 17	Passed	Approved	Test Case was executed successfully
Acceptance Testing	AVA - Test Case 19	Passed	Approved	Test Case was executed successfully
Acceptance Testing	AVA - Test Case 21	Passed	Approved	Test Case was executed successfully

Test Level	Test Name	Overall Execution Status (Pass/Fail)	Summary Status (e.g. Approval Complete)	Execution Comments
Acceptance Testing	AVA - Test Case 22	Passed	Approved	Test Case was executed successfully
Acceptance Testing	AVA - Test Case 23	Passed	Approved	Test Case was executed successfully
Acceptance Testing	Schedule - Test Case 1	Passed	Approved	Test Case was executed successfully
Acceptance Testing	Schedule - Test Case 2	Passed	Approved	Test Case was executed successfully
Acceptance Testing	Schedule - Test Case 4	Passed	Approved	Test Case was executed successfully
Acceptance Testing	Schedule - Test Case 5	Passed	Approved	Test Case was executed successfully
Acceptance Testing	Schedule - Test Case 6	Passed	Approved	Test Case was executed successfully
Acceptance Testing	Schedule - Test Case 7	Passed	Approved	Test Case was executed successfully
Acceptance Testing	Schedule - Test Case 8	Passed	Approved	Test Case was executed successfully
Acceptance Testing	Schedule - Test Case 9	Passed	Approved	Test Case was executed successfully
Acceptance Testing	Schedule - Test Case 10	Passed	Approved	Test Case was executed successfully
Acceptance Testing	Schedule - Test Case 12	Passed	Approved	Test Case was executed successfully
Acceptance Testing	Schedule - Test Case 13	Passed	Approved	Test Case was executed successfully
Acceptance Testing	Schedule - Test Case 14	Passed	Approved	Test Case was executed successfully
Acceptance Testing	Schedule - Test Case 15	Passed	Approved	Test Case was executed successfully
Acceptance Testing	Schedule - Test Case 16	Passed	Approved	Test Case was executed successfully
Acceptance Testing	Schedule - Test Case 17	Passed	Approved	Test Case was executed successfully
Acceptance Testing	Schedule - Test Case 18	Passed	Approved	Test Case was executed successfully
Acceptance Testing	Schedule - Test Case 19	Passed	Approved	Test Case was executed successfully
Acceptance Testing	Sign - Test Case 5	Passed	Approved	Test Case was executed successfully

Test Level	Test Name	Overall Execution Status (Pass/Fail)	Summary Status (e.g. Approval Complete)	Execution Comments
Acceptance Testing	Version - Test Case 1	Passed	Approved	Test Case was executed successfully
Acceptance Testing	Version - Test Case 2	Passed	Approved	Test Case was executed successfully
Acceptance Testing	Version - Test Case 3	Passed	Approved	Test Case was executed successfully
Acceptance Testing	Version - Test Case 4	Passed	Approved	Test Case was executed successfully
Acceptance Testing	Version - Test Case 5	Passed	Approved	Test Case was executed successfully
Acceptance Testing	Version - Test Case 6	Passed	Approved	Test Case was executed successfully
Acceptance Testing	Version - Test Case 7	Passed	Approved	Test Case was executed successfully
Acceptance Testing	Version - Test Case 8	Passed	Approved	Test Case was executed successfully
Acceptance Testing	Version - Test Case 9	Passed	Approved	Test Case was executed successfully

The Final Runs of Acceptance Testing results are stored in Regulus and approved by Business. Additional details can be found in CR.

3.5   Test Problem Report Summary

The following table summarizes the defects that were found in Formal System Testing, Regression Testing and User Acceptance Testing. Additional details can be found in HP Quality Center-> Defects module.

Defect ID	Title	Status
191	Check box for Mobile number is disabled	Closed
192	Schedule/AVA not displaying appropriate error icon and message for read-only user	Closed
193	CLUWE_R4.0_Formal_Testing_Job_Scheduling_Encoding_Value	Closed
195	Error Files	Closed
199	Email Notification Failure	Closed

3.6   Justification for Unresolved or Outstanding Test Items

There are no outstanding test items for this release.

3.7   Departures from the Master Test Plan for this Release

There were no departures from the Test Plan.

4. REFERENCES

A current list of system-specific documents stored in Regulus can be generated using Regulus. The documents are stored in the IT Library Regulus repository at *IT_Library > LRL IT > Systems C to D > CLUWE (Clinical User Working Environment).*

Requirements and testing documents are stored in HP ALM 12.5 under *Domain*: GMR, *Project*: GSS_eSig