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Lender Reporting System Development Review

June 27, 2002

(updated August 21, 2002)

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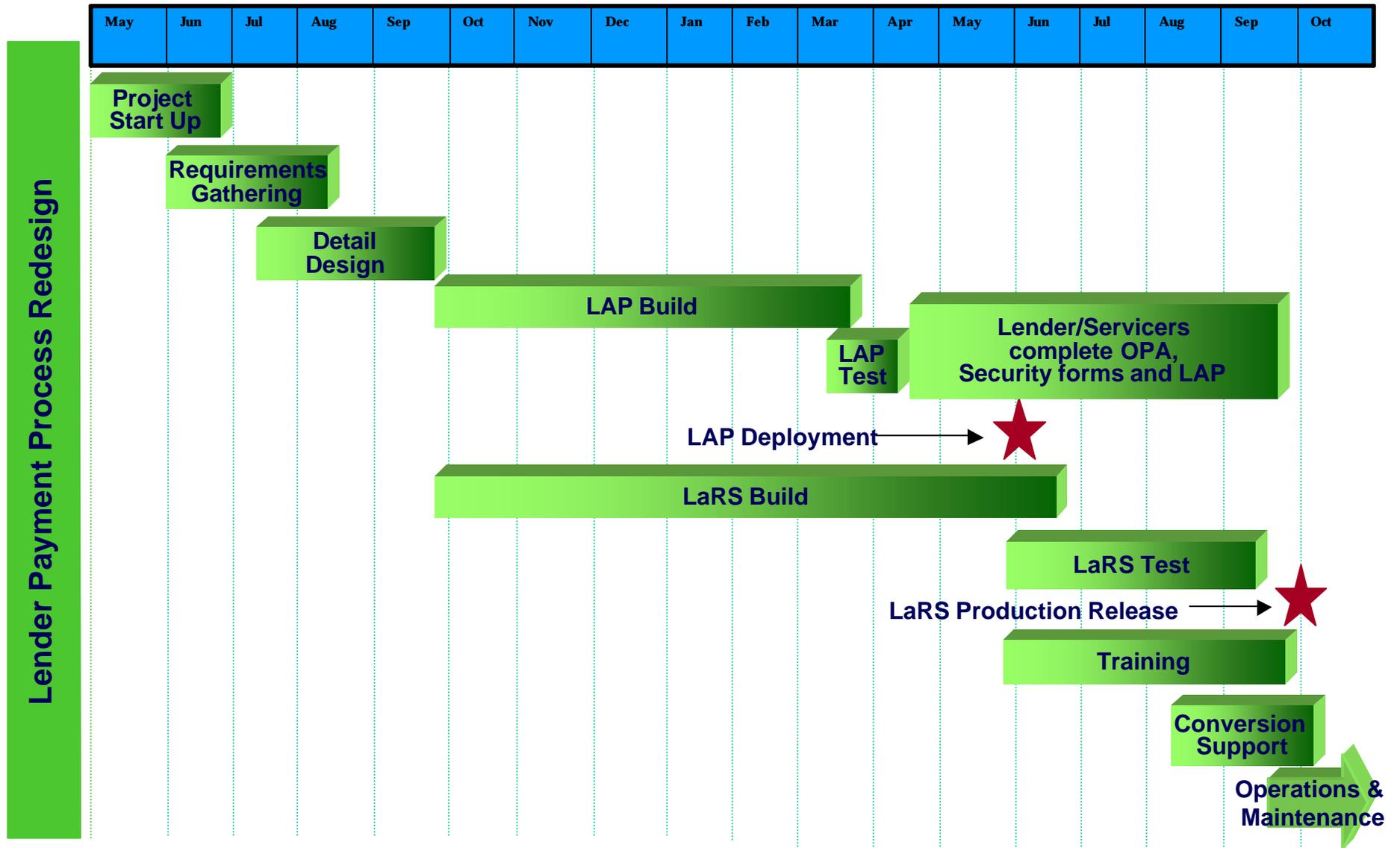


Introduction – Business Case Overview

The Lender Payment Process Redesign effort enables FFEL program Lenders and Servicers to submit Interest and Special Allowance invoices and related remittances electronically. The Lender Payment Process Redesign project will provide the following capabilities:

- Enable FFELP participants to electronically complete and submit reports
- Comply with legislative and statutory requirements
- Integrate access to Interest and Special Allowance data through FSA's Financial Management System (FMS) for both the community and FSA
- Provide timely notification to the community of errors following submission

Introduction - Timeline



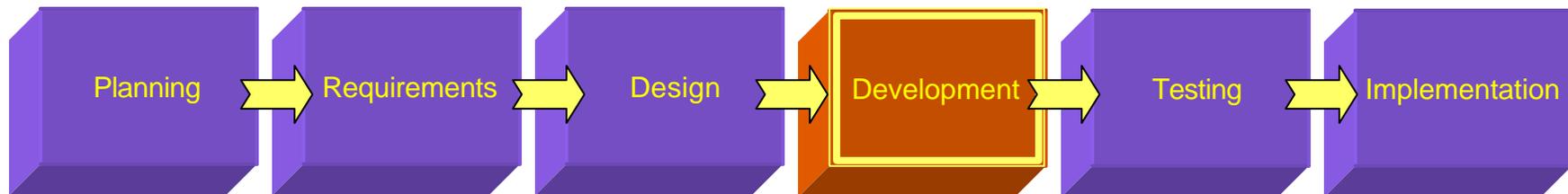


Introduction – Description of Development Deliverable

The Lender Reporting System Development Sign-Off deliverable consists of:

- **This presentation** – a summary of the processes and resources used to code and unit test the components specified in the Technical Designs that were delivered on June 21, 2002. It also summarizes the quality assurance processes employed to verify that the components developed reflect the requirements and designs.
- **The Component Index** – a list of the components delivered, the Technical Designs used in development, and the code reviewer.
- **The components** – the code itself, residing in the FMS DEVCOM instance. In DEVCOM, they are accessible to the LPPR development team. The DEVCOM components are the baseline used to migrate code to INTCOM, where the components are accessible to our system test team, including the FP Financial Management team.
- **The Test Readiness Review (TRR) Checklist** – developed for the TRR held on May 30th.

Development Process – Development Lifecycle



The Lender Payment Process Redesign team completed Planning, Requirements Gathering, and Functional and Technical Design prior to developing the components listed in the Component Index.

During the Development Phase, the team worked from the Technical Designs to develop and unit test interfaces, conversions, and Oracle extensions according to the specifications. At the completion of Development, the components were ready to enter the Testing Phase.



Development Process - Standards

The team worked from the documented FMS Development Standards. These standards are followed for all components within the FMS architecture.

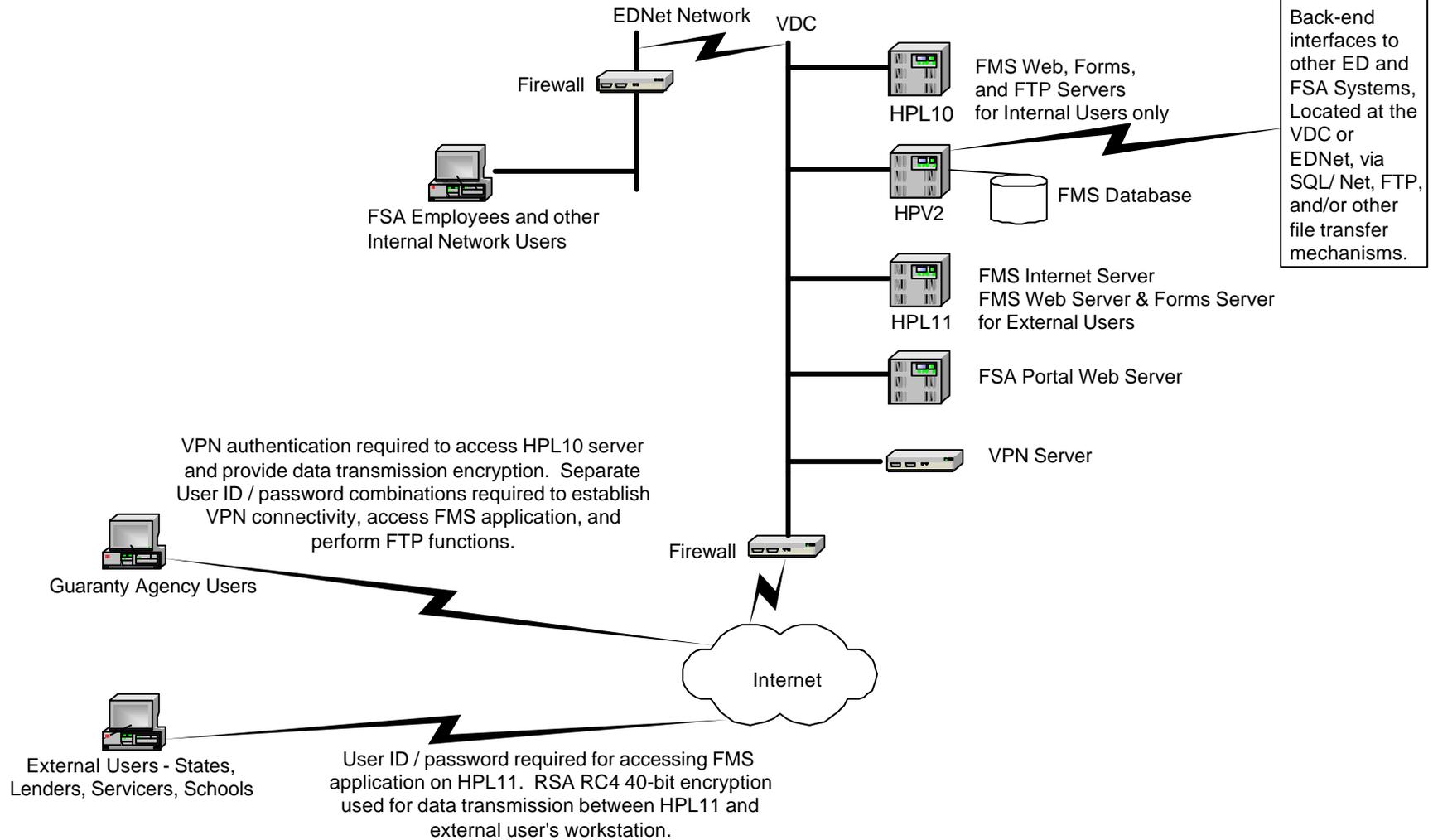
The Development Standards provide guidance for the developers, and address the following areas, in addition to other detailed technical considerations:

- Naming Conventions
- Use of Reserved Words
- Comments in the Code
- Use of Template Forms

Use of these standards helps ensure that the code is consistent, well-organized, and maintainable by all Oracle resources.

Development Process – FMS Technical Architecture

FMS Production Architecture



Development Process – FMS Technical Architecture (cont.)



Lender Payment Process Redesign components are integrated into the FMS Technical Architecture shown on page 8.

- Lenders and Servicers will access functionality through the internet; forms for the external users are on HPL11.
- FSA Users will access functionality through EDNet.
- Lender Payment Process Redesign tables are stored within the LAP and LaRS schemas, as part of the overall FMS database.

The Lender Payment Process Redesign effort also follows the FMS Configuration Management Plan for the components.



Development Process – Quality Assurance

- Code reviews were performed on all components, and verified that the developed component followed the Technical Design and the FMS Development Standards, and that the unit test had been successfully executed from start to finish.
- On May 30, 2002, a Test Readiness Review was conducted by the IV&V team, in accordance with FMS development procedures. The results of the review are documented on page 14.
- In the Testing Phase of this effort, further verification and validation will be performed to ensure that the components meet functional and technical requirements.

Resources



- The Lender Payment Process Redesign effort employed as many as 13 developers simultaneously in order to develop the Lender Reporting System components.
- We employed Oracle Corporation resources and the Accenture Chicago Oracle Solution Center. Developers were experienced and skilled in Oracle Apps development.
- We worked closely with the FMS Accounts Receivable team to ensure consistency with FMS standards and integration with Accounts Receivable functionality.



Components Delivered

The Lender Payment Process Redesign team delivered 40 components.

These components included:

- Interfaces
- Conversions
- Oracle extensions

The Component Index appendix contains a listing of the components delivered, the Technical Designs from which they were developed, and the code reviewer.

The Technical Designs, delivered on June 21st and located at `f:\lars\design documents\tech designs\reviewed`, contain the technical design specifications and the unit test scripts that the developers used to develop and unit test the components.

Unit Testing Overview

- Unit Test scripts were included in technical designs, and were reviewed as part of the Technical Design review and approval process.
- Unit Test was executed by developers following initial development. Approximately 50% of the time spent in the Development Phase was devoted to Unit Testing.
- Any issues discovered during Unit Test were remedied by the developers and retested before components were considered complete.
- Unit Test results were verified by the code reviewer.

Test Readiness Review



The Lender Payment Process Redesign team, in conjunction with the FMS Accounts Receivable team, participated in a Test Readiness Review (TRR) with the FMS IV&V team on May 30th. As a result of this review, the FMS IV&V team concluded:

“The Mod Partner was fully prepared and did an excellent job presenting the appropriate documentation and complying with their WorkStream TRR checklist. Updated Test Plans were provided and addressed our previous comments. Unit testing was completed and scripts for system testing were provided.”

From an email sent by Philip Norton on 5/31/2002

The TRR Checklist is included with this deliverable. The signed copies are in the hard-copy binders delivered to Carol Seifert, Janet Scott, and Johan Bos-Beijer.

Summary and Next Steps



The Lender Payment Process Redesign team is pleased to deliver the components listed in Appendix A. These components followed the FMS development standards and quality assurance processes, and are ready for System Test.

The following schedule shows an overview of the remaining steps for this effort:

System Test	6/3/2002 – 8/16/2002
Integration Test (includes end-to-end, up to ED)	7/15/2002 – 8/23/2002
Performance Test	8/12/2002 – 9/13/2002
User Acceptance Test	8/12/2002 – 8/23/2002
Production Simulation	8/12/2002 – 8/23/2002
PRR	8/28/2002
LaRS Production Release (internal)	9/9/2002
LaRS Production Release to Community	10/1/2002