



LEADER REPLACEMENT SYSTEM AGREEMENT

Exhibit E (Pre-Existing Software Components)

Department of Public Social Services
Los Angeles County
12860 Crossroads Parkway South
City of Industry, CA 91746-3411



PRE-EXISTING SOFTWARE COMPONENTS

Components of the Leader Replacement System

This document provides a detailed, graphical-based view into Accenture's proposed solution for LRS. The complete technical solution is presented in this document, layer by layer. Within each architectural layer, a component inventory is presented.

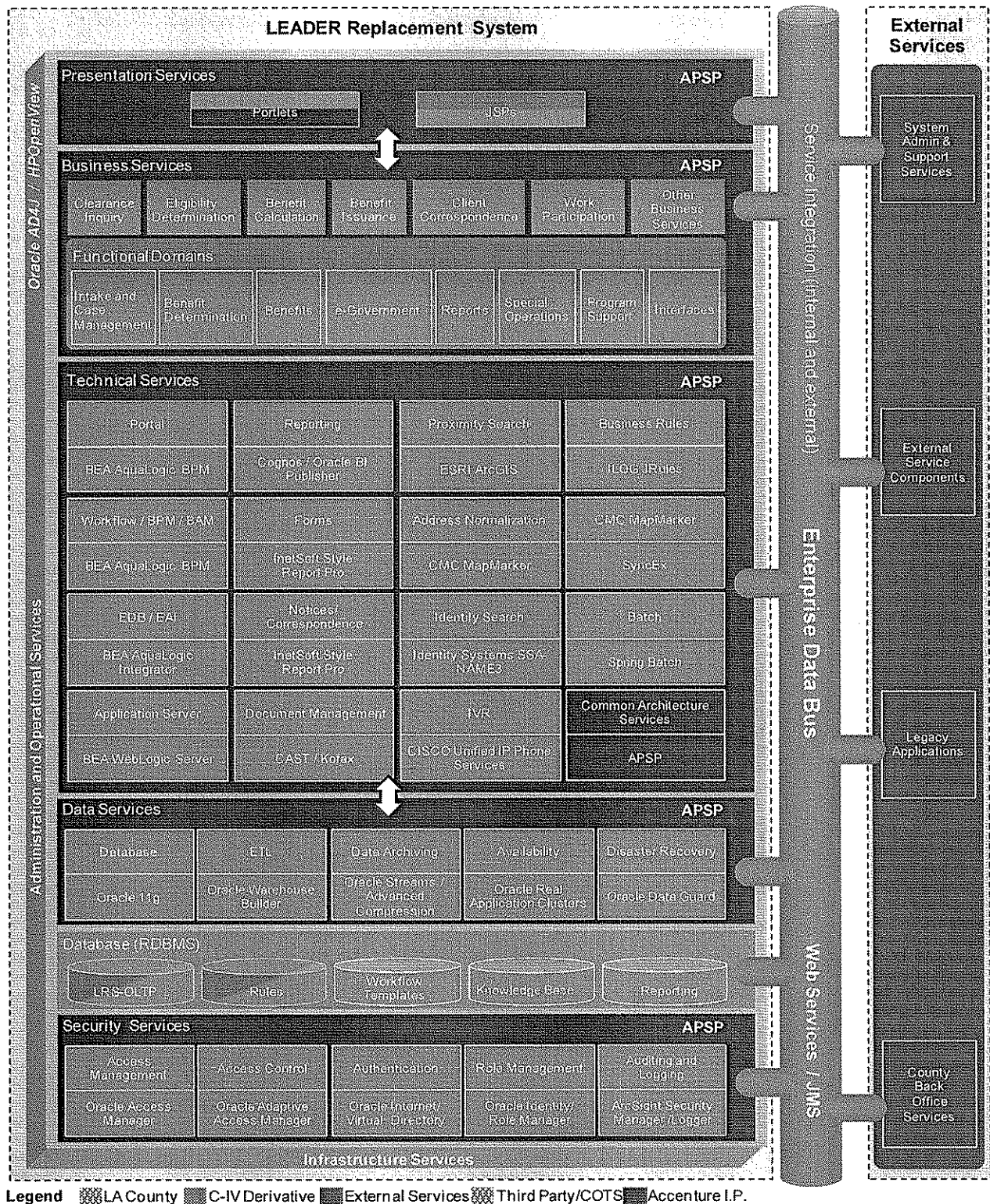
LRS is relatively complex, and is comprised of many different products and application software components. Associated with the different software components are other items that provide integration and architectural frameworks, developer documentation, developer tools, and the application software itself. These components are classified and organized by type within this document.

A major portion of the overall LRS solution is the Pre-Existing Accenture Framework Software (referred to in the LRS Proposal as "Accenture Platform for Social Services" or "APSS" and referred to herein as "Accenture Public Service Platform" or "APSP"). APSP is an enterprise architecture based on current Service Oriented Architecture (SOA) industry standards. It is composed of frameworks, technical services, development templates, and "how-to" developer guides. The components and documentation of APSP are presented within this document by layer or tier of the LRS system. APSP provides capabilities to integrate the required LRS applications and products into a manageable, scalable and predictable system, presenting LRS users with a common view and access to required LRS functions. APSP provides LA County with the ability to modify and adapt the LRS technical architecture. In addition to providing a component inventory of LRS, this document identifies ownership of the different components. Ownership falls into four (4) categories: LA County, C-IV Consortium (and derivatives), 3rd-party products, and Accenture. Color-coding of the components indicates which ownership category applies.

Components from or based on C-IV are labeled "C-IV Derivative". Components custom-built by Accenture included in the Accenture Public Service Platform (APSP) are labeled "Accenture I.P." 3rd-party COTS components and other non-Accenture commercial products have been labeled, "COTS". Lastly, components that will be specially built for LA County, are labeled as such. Each of the labels are color-coded and a color key is provided in a standard legend at the bottom of each page.



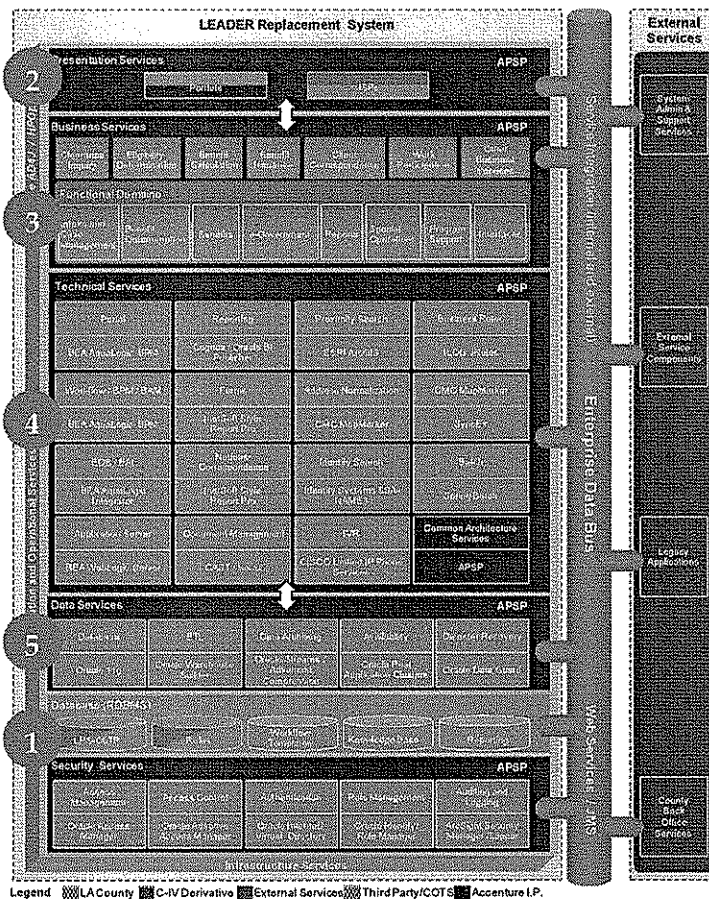
Overview: Components and Layers of the LEADER Replacement System





LRS SOA Enterprise Architecture: Overview of Solution Layers and Tiers

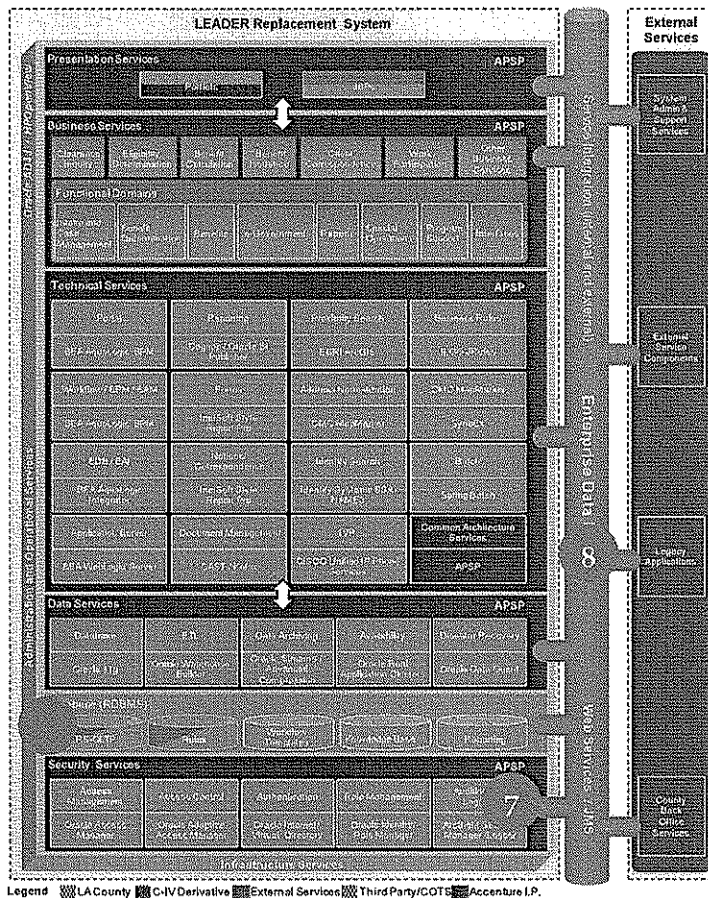
APSP is a SOA enterprise architecture. It provides the foundation for the Technical Services and Business Services for the LRS layers



- 1 Database Layer**
Comprised of custom databases supporting the System and APSP Data Services
Enterprise data and information are stored in this layer.
- 2 Presentation Services Layer**
Comprised of the Oracle Portal COTS product, JSPs, and APSP.
Presentation Technical Frameworks, Templates, documentation and baseline APSP portlets provide the starting point for changes to create specific portlets for LA county
Users interact with this layer using a browser, a mobile device, or interactive voice response. It contains the portal application, Java Server Pages (JSPs) and Portlets.
- 3 Business Services Layer**
Comprised of the Oracle J2EE Server COTS product, APSP Business Services, and custom Business Services.
Loosely coupled business related SOA services are within this layer.
- 4 Technical Services Layer**
Comprised of the COTS technical products and APSP Technical Services.
The components needed to support LRS' technical requirements such as Workflow, Reporting, Document Management, Business Rules are within this layer.
- 5 Data Services Layer**
Comprised of the Oracle Database, Warehouse Builder, several database add-on COTS products, and APSP frameworks.
Access to databases, storage and repositories occurs in this layer.



LRS SOA Enterprise Architecture: Overview of Solution Layers and Tiers (continued)



6

Security Services Layer

Comprised of the Oracle suite of COTS products, APSP Security Services and the ArcSight COTS product.

The required security protection for all the other layers is housed in this layer.

7

Infrastructure Services and Administration and Operational Services Layer

Comprised of HP OpenView and Oracle Developer COTS products.

Provides low level operational system services (e.g. Linux) and also the administration and operational services for LRS.

8

Service Integration Layer (EDB)

Comprised of the Oracle AquaLogic EDB COTS product.

The Enterprise Data Bus (EDB) provides the needed capabilities for our services infrastructure: services orchestration, messaging, monitoring, management, dynamic routing, and transformation. External systems interact with LRS using Web Service calls or traditional online and batch interfaces via the EDB.



Presentation Services Layer

Inventory of LRS components in the Presentation & Business Services Layers

Presentation Services

APSP Technical Frameworks / Templates

APSP

Accenture

APSP Presentation Services provide the foundation for presentation of Business Services to LRS users. This layer comprises the LRS "User Interface".

The Presentation Services consist of APSP Technical Frameworks, Templates and documentation.

Frameworks are code shells for development of Portlets and JSPs for the LRS system. They include:

- Page Template-Layout Framework
- Global Navigation
(Horizontal Menu)
- One-Click / Re-submit Control

JSPs	C-IV	C-IV
<ul style="list-style-type: none">• 100 HOUR RULE WORKSHEET• 130% FPL TEST DETAIL• ABAWD TIME LIMIT MONTH DETAIL• ABAWD TIME LIMIT MONTH LIST• ABSENT/UNMARRIED PARENT LIST• ACTION PLAN• ACTIVITY AGREEMENT DETAIL• ACTIVITY AGREEMENTS LIST• ACTIVITY DETAIL• ACTIVITY LIST• ACTIVITY PROGRESS DETAIL• ACTIVITY SEARCH• ADDRESS DETAIL• ADMINISTRATIVE DISQUALIFICATION DETAIL• ADMINISTRATIVE DISQUALIFICATION SEARCH• ADMINISTRATIVE DISQUALIFICATION SEARCH DETAILED RESULTS• ADMINISTRATIVE ROLE DETAIL• ALERT DETAIL• ALERT LIST• APPLICATION DETAIL		



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<ul style="list-style-type: none">• APPOINTMENT DETAIL• APPOINTMENT LIST• APPROVED FOR COUNTY USE LIST• AVAILABILITY LIST• BANKRUPTCY DETAIL• BARCODED DOCUMENT ROUTING DETAIL• BEST PRACTICE DETAIL• BEST PRACTICE SEARCH• C4YOURSELF REGISTRATION SEARCH PAGE• CAL-LEARN STATUS DETAIL• CAL-LEARN STATUS LIST• CALWORKS EDBC• CASE COPY LIST• CASE FLAG DETAIL• CASE FLAG LIST• CASE LOCK ERROR• CASE MEMBER LIST• CASE SUMMARY• CASELOAD ACTIVITY SEARCH• CASH AID TIME LIMIT MONTH DETAIL• CASH AID TIME LIMIT MONTH LIST• CERTIFICATE SEARCH• CFAP CALCULATION DETAIL• CHANGE ID AND PASSWORD• CHANGE PASSWORD• CHILD CARE CERTIFICATE DETAIL• CHILD CARE CERTIFICATES LIST• CHILD CARE CUSTOMER REPORTING DETAIL• CHILD CARE CUSTOMER REPORTING LIST• CHILD CARE MONTHLY PRODUCTIVITY LIST• CHILD CARE NEED DETAIL• CHILD CARE NEED LIST• CHILD CARE PAYMENT CALCULATION DETAIL• CHILD CARE PAYMENT CALCULATION LIST• CHILD CARE PERSON DETAIL• CHILD CARE PROGRAM DETAIL• CHILD CARE WAIT LIST DETAIL• CHILD CARE WAIT LIST DETAIL COLLABORATOR• CHILD CARE WAIT LIST SEARCH• CHILD CARE WORKLOAD INVENTORY• CHILD DETAIL• CHILD PLACEMENT DETAIL		
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<ul style="list-style-type: none">• CHILD PLACEMENT LIST• CHILD SUPPORT COLLECTION DETAIL• CHILD SUPPORT COLLECTION LIST• CHILD UNDER ONE TRACK DETAIL• CHILD UNDER ONE TRACK SUMMARY• CHILD WELFARE SERVICES AUTHORITY DETAIL• CITIZENSHIP STATUS DETAIL• CITIZENSHIP STATUS LIST• CLASS PERFORMANCE DETAIL• CLASS PERFORMANCE LIST• CLIENT INDEX NUMBER SEARCH• COLLABORATOR ASSIGNMENT SEARCH• COLLABORATOR DETAIL• COLLABORATOR LOGIN - CHANGE PASSWORD• COLLABORATOR SEARCH• CONFIDENTIALITY DETAIL• CONTACT SUMMARY• COUNTY ANNOUNCEMENT DETAIL• COUNTY ANNOUNCEMENT LIST• COUNTY IMPACT LIST• COUNTY SECURITY ROLE DETAIL• COUNTY SECURITY ROLE LIST• COURTESY MONTH LIST• COVERSHEET CREATION DETAIL• CREATE PROGRAM• CUSTOMER ACTIVITIES LIST• CUSTOMER ACTIVITY DETAIL• CUSTOMER ACTIVITY STATUS DETAIL• CUSTOMER OPTIONS DETAIL• CUSTOMER OPTIONS LIST• CUSTOMER REPORTING DETAIL• CUSTOMER REPORTING LIST• CUSTOMER SCHEDULE SEARCH• DAILY AVAILABILITY• DAILY SCHEDULE• DEGREES LIST• DEPRIVATION DETAIL• DEPRIVATION LIST• DISTRIBUTED DOCUMENTS SEARCH• DIVERSION EDBC• DOCUMENT PARAMETERS• DUPLICATE CIN LIST PAGE		
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<ul style="list-style-type: none">• DUPLICATE PERSON LIST• E-APPLICATION DOCUMENT SEARCH• E-APPLICATION PERSON DETAIL• E-APPLICATION SEARCH• E-APPLICATION SUMMARY• EBT ACCOUNT DETAIL• EBT ACCOUNT LIST• EBT ACCOUNT REPAYMENT DETAIL• EBT ACCOUNT SEARCH• EBT CARD ASSIGNMENT DETAIL• EBT CARD DETAIL• EBT CARD PRINT LIST• EBT CARD TRANSACTION SEARCH• EDBC INCOME DETAIL• EDBC LINE ITEM DETAIL• EDBC LIST• EDBC PERSON LINE ITEM DETAIL• EDBC RESULTS• EDIT CASE NAME• EDIT PERSON NUMBER• EFFECTIVE DATING CONFIRMATION LIST• ELECTRONIC SIGNATURE• ELECTRONIC SIGNATURE REGISTRATION• ELECTRONIC SIGNATURE REGISTRATION LIST• ELIGIBILITY DETAIL• ELIGIBILITY NON-COMPLIANCE DETAIL• ELIGIBILITY NON-COMPLIANCE LIST• ELIGIBILITY WORKLOAD INVENTORY• E-MESSAGES SEARCH• EMPLOYMENT DETAIL• EMPLOYMENT HOURS DETAIL• EMPLOYMENT LIST• EMPLOYMENT SERVICES PROGRAM SEARCH• EMPLOYMENT SERVICES WORKLOAD INVENTORY• EMPLOYMENT STATUS DETAIL• EMPLOYMENTS SEARCH• ENCLOSURE DETAIL• ENCLOSURE LIST• ENTER HOME CALL REFERRAL• ENTER REPORT PARAMETERS• ENTER SPECIAL INVESTIGATION REFERRAL• E-SIGNATURE DOCUMENT DETAIL		
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<ul style="list-style-type: none">• EVIDENCE DETAIL• EVIDENCE LIST• EXCUSED ABSENCE LIST• EXPENSE AMOUNT DETAIL• EXPENSE CONTRIBUTORS DETAIL• EXPENSE DETAIL• EXPENSE LIST• EXPUNGEMENT DETAIL• EXPUNGEMENT HISTORY• EXPUNGEMENT SEARCH• FAMILY PLAN• FEEDBACK DETAIL• FEEDBACK SEARCH• FINDING DETAIL• FINDING LIST• FISCAL HISTORY SEARCH• FISCAL HISTORY SEARCH DETAILED RESULTS• FLAG DETAIL• FLAG SEARCH• FLEEING FELON REPORT• FOOD STAMPS EDBC SUMMARY• FOSTER CARE EDBC• FOSTER CARE EXEMPTION DETAIL• FOSTER CARE FACILITY RATIO DETAIL• FOSTER CARE RATIO LIST• FOSTER CARE REDETERMINATION DETAIL• FOSTER CARE REDETERMINATION LIST• FOSTER CARE RESOURCE DETAIL• FOSTER CARE RESOURCE SEARCH• FSET STATUS DETAIL• FSET STATUS LIST• GENERATED DOCUMENT DETAIL• GOAL DETAIL• GOALS LIST• GOOD CAUSE DETAIL• GOOD CAUSE LIST• GOOD CAUSE STATUS DETAIL• GOOD CAUSE WORKLOAD INVENTORY• HEALTH CARE REFERRAL LIST• HEARING DETAIL• HEARING SEARCH• HEARING SEARCH DETAILED RESULTS		
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<ul style="list-style-type: none">• HEARING STATUS HISTORY• HIDE PERSON• HOMEPAGE• HOUSEHOLD STATUS DETAIL• HOUSEHOLD STATUS LIST• ICT DETAIL• ICT EXTERNAL PERSON DETAIL• ICT PERSON MATCH• ICT PROGRAM PERSON DETAIL• ICT SUMMARY• ICT TIME LIMITS• IEVS APPLICANT DETAIL• IEVS APPLICANT LIST• IEVS ASSIGNMENT• IEVS BATCH ASSIGNMENT CONFIGURATION• IEVS DECEASED PERSON MATCH REPORT• IEVS EARNINGS MATCH• IEVS FINDINGS• IEVS PVS REPORT• IEVS REPORT SEARCH• IEVS REVIEW FINDINGS SEARCH• IEVS SAVE DETAIL• IEVS SAVE LIST• IHSS ALERT DETAIL• IHSS ALERT SEARCH• IHSS REFERRAL DETAIL• IHSS REFERRAL SEARCH• IMAGED DOCUMENT DETAIL• IMAGED DOCUMENT SEARCH• IMMEDIATE NEED EDBC• IMMEDIATE NEED SUMMARY• IMPLEMENTATION PLAN DETAIL• INCOME ALLOCATION• INCOME AMOUNT DETAIL• INCOME DETAIL• INCOME LIST• INCOMING ICT SEARCH• INDIVIDUAL DEMOGRAPHICS DETAIL• INDIVIDUAL DEMOGRAPHICS LIST• INDIVIDUAL FINANCIAL DETAIL• INDIVIDUAL REASSIGNMENT• INTAKE AVAILABILITY DETAIL		
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<ul style="list-style-type: none">• INTAKE WORKER SCHEDULE• INTERVIEW DETAIL• INTERVIEW LIST• INTERVIEW RESULT DETAIL• INTERVIEW RESULT LIST• INVENTORY REASON DETAIL• INVESTIGATION RESULT DETAIL• INVESTIGATION RESULT LIST• IRT TEST DETAIL• ISSUANCE DETAIL• ISSUANCE HISTORY• ISSUANCE METHOD DETAIL• ISSUANCE SEARCH• JOB ORDER DETAIL• JOB ORDER LIST• JOB ORDER SEARCH• JOB ORDER SEARCH DETAILED RESULTS• JOB READINESS TRACK DETAIL• JOB READINESS TRACK SUMMARY• JOURNAL DETAIL• JOURNAL LIST• JOURNAL PRINT• KIN-GAP EDBC• KIN-GAP INFANT SUPPLEMENTAL DETAIL• KIN-GAP RATE DETAIL• KIN-GAP RATE SUMMARY• KIN-GAP SPECIAL CARE INCREMENT DETAIL• KIN-GAP SUMMARY• LEGACY CASE LIST• LICENSE CONFIRMATION LIST• LICENSE INFORMATION DETAIL• LICENSE INFORMATION LIST• LIQUID PROPERTY DETAIL• LIVING ARRANGEMENTS DETAIL• LIVING ARRANGEMENTS LIST• LOCAL WARRANT PRINT• LONG TERM CARE DETAIL• MANUAL EDBC DETAIL• MANUAL REIMBURSEMENT REQUEST• MEDICAL CONDITION DETAIL• MEDICAL CONDITION LIST• MEDI-CAL EDBC OVERRIDE DETAIL		
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<ul style="list-style-type: none">• MEDI-CAL EDBC OVERRIDE LIST• MEDI-CAL EDBC SUMMARY• MEDICARE DETAIL• MEDICARE LIST• MEDS ALERT DETAILS• MEDS ALERT SEARCH• MILEAGE RATE DETAIL• MILEAGE RATE LIST• MISSING RELATIONSHIP LIST• MONEY MANAGEMENT DETAIL• MONEY MANAGEMENT LIST• MONTHLY PRODUCTIVITY LIST• MOTOR VEHICLE DETAIL• NEED DETAIL• NEEDS LIST• NEGATIVE ACTION• NEW HIRE• NEW PERSON DETAIL• NEW PERSON SEARCH• NEW PERSON SEARCH RESULTS• NEW PROGRAM DETAIL• NEW/REAPPLICATION DETAIL• NON C-IV FORM DETAIL• NON C-IV FORM SEARCH• NON CUSTOMER ISSUANCE• NON-DEPENDENT INFANT DETAIL• NON-RELATED LEGAL GUARDIANSHIP AUTHORITY DETAIL• NOTE DETAIL• NOTE LIST• NOTICE OF ACTION• NOTIFICATION LIST• OFFICE DETAIL• OFFICE INTAKE SCHEDULE• OFFICE SEARCH• OTHER HEALTH CARE DETAIL• OTHER HEALTH CARE LIST• OTHER HEALTH CARE SEARCH• OTHER PROGRAM ASSISTANCE DETAIL• OTHER PROGRAM ASSISTANCE LIST• OUTGOING ICT SEARCH• OVERPAYMENT ADJUSTMENT DETAIL		
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<ul style="list-style-type: none">• OVERPAYMENT ADJUSTMENT LIST• OVERPAYMENT DETAIL• OVERPAYMENT SUMMARY• OVERRIDE AID CODE• OVERRIDE FOSTER CARE EDBC AID CODE• PAGE MAPPING SEARCH• PAYMENT AMOUNT USED BY EDBC• PAYMENT OVERRIDE DETAIL• PAYMENT REQUEST ADJUSTMENT SUMMARY• PAYMENT REQUEST DETAIL• PAYMENT REQUEST SEARCH• PAYMENT REQUEST SEARCH DETAILED RESULTS• PENDING PROGRAM ASSIGNMENT LIST• PENDING WORKLOAD ASSIGNMENT DETAILED LIST• PENDING WORKLOAD ASSIGNMENT LIST• PERFORMANCE ANALYSIS DETAIL• PERFORMANCE ANALYSIS SEARCH• PERMANENCY PLAN DETAIL• PERSON APPLICATION HISTORY DETAIL• PERSON HISTORY• PERSON MATCH DETAIL• PERSON SEARCH• PERSON SEARCH RESULTS• PERSONAL PROPERTY DETAIL• PICKLE DISREGARD DETAIL• PLACEMENT AUTHORITY LIST• POSITION DETAIL• POSITION SEARCH• PREGNANCY DETAIL• PREGNANCY LIST• PREVIOUS CASE LIST• PREVIOUS POTENTIAL BENEFIT LIST• PRIMARY WAGE EARNER WORKSHEET• PRISONER MATCH REPORT• PROBATION AUTHORITY DETAIL• PROCEEDING DETAIL• PROGRAM APPLICATION HISTORY DETAIL• PROGRAM CONFIGURATION OVERRIDE DETAIL• PROGRAM CONFIGURATION OVERRIDE LIST• PROGRAM DETAIL• PROGRAM HISTORY• PROGRAM PERSON DETAIL		
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<ul style="list-style-type: none">• PROGRAM PERSON HISTORY• PROGRAM REAPPLICATION LIST• PROGRAM STATUS DETAIL• PROPERTY HISTORY DETAIL• PROPERTY LIST• PROSECUTION RESULT DETAIL• PROSECUTION RESULT LIST• PROTECTIVE CUSTODY AUTHORITY DETAIL• PURCHASE AND PREPARE DETAIL• PURCHASE AND PREPARE LIST• QR SUBMIT MONTHS DETAIL• QUALITY ASSURANCE RANDOM SAMPLE SEARCH• QUALITY REVIEW DETAIL• QUALITY REVIEW SEARCH• RATE DETAIL• RCA EDBC• RDB PUBLIC HOME PAGE• RDB WORKLOAD REASSIGNMENT• REAL PROPERTY DETAIL• RECEIPT DETAIL• RECEIPT SEARCH• RECEPTION LOG• RECEPTION LOG DETAIL• RECOVERY ACCOUNT DETAIL• RECOVERY ACCOUNT SEARCH• RECOVERY ACCOUNT SEARCH DETAILED RESULTS• RECOVERY ACCOUNT SELECT• RECOVERY ACCOUNT WORKLOAD INVENTORY• RECURRING SPECIAL NEEDS DETAIL• RECURRING SPECIAL NEEDS LIST• REFERRAL DETAIL• REFERRALS LIST• REFERRALS SEARCH• RELATIONSHIP DETAIL• RELATIONSHIP LIST• RELINQUISHMENT AUTHORITY DETAIL• REPAYMENT TERM DETAIL• REPAYMENT TERM SUMMARY• REPORT SEARCH• REQUESTED MEDICAL TYPE• RESCIND CONFIRMATION• RESCIND DETAIL		
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<ul style="list-style-type: none">• RESET PIN• RESIDENCY DETAIL• RESIDENCY LIST• RESOURCE DETAIL• RESOURCE REQUEST DETAIL• RESOURCE REQUEST SEARCH• RESOURCE SEARCH• RESPONSIBLE PARTY DETAIL• RESPONSIBLE PARTY PROSECUTION DETAIL• ROOT QUESTIONS• RUN EDBC• RUN QUALITY ASSURANCE BATCH• SANCTION TRACK LIST• SCHOOL ATTENDANCE DETAIL• SCHOOL ATTENDANCE LIST• SCHOOL ATTENDANCE STATUS DETAIL• SECURITY ASSIGNMENT DETAIL• SECURITY GROUPS LIST• SECURITY QUESTIONS• SECURITY RIGHTS LIST• SELECT ADDRESS• SELECT CASE• SELECT CERTIFICATE PERIOD• SELECT COVERSHEET• SELECT EMPLOYMENT• SELECT FOSTER CARE PAYEE• SELECT ISSUE CODE• SELECT NEED• SELECT OFFICE• SELECT ORGANIZATION• SELECT PERSON• SELECT PROGRAMS• SELECT RESOURCE• SELECT SECURITY GROUP• SELECT SECURITY ROLE• SELECT SERVICE AND PROVIDER• SELECT SERVICE PROVIDER RATE• SELECT TRAINING PROGRAM NAME• SELECT UNIT• SELECT WORKER• SELF-EMPLOYMENT DEDUCTION TYPE DETAIL• SERIOUSLY EMOTIONALLY DISTURBED AUTHORITY		
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<p>DETAIL</p> <ul style="list-style-type: none">• SERVICE ACTIVITY DETAIL• SERVICE ACTIVITY LIST• SERVICE ARRANGEMENT DETAIL• SERVICE ARRANGEMENT SEARCH• SERVICE ARRANGEMENTS LIST• SERVICE DETAIL• SERVICE LIST• SERVICE PROVIDER RATE DETAIL• SERVICE PROVIDER RATES LIST• SERVICE PROVIDER REQUEST SEARCH• SERVICE PROVIDER SEARCH• SERVICE PROVIDER SEARCH DETAILED RESULTS• SIP DETAIL• SIP LIST• SIP STATUS DETAIL• SIU REFERRAL INVENTORY• SKILLS LIST• SKILLS SEARCH• SMALL CLAIMS DETAIL• SNEEDE EDBC SUMMARY• SPECIAL CARE INCREMENT DETAIL• SPECIAL INVESTIGATION ASSIGNMENT DETAIL• SPECIAL INVESTIGATION ASSIGNMENT LIST• SPECIAL INVESTIGATION DETAIL• SPECIAL INVESTIGATION SEARCH• SPECIAL INVESTIGATION SEARCH DETAILED RESULTS• SPECIAL INVESTIGATION STATUS HISTORY• SPECIAL TREATMENT EDBC• STAFF ASSIGNMENT DETAIL• STAFF ASSIGNMENT HISTORY• STAFF ASSIGNMENT LIST• STAFF DETAIL• STAFF SEARCH• STANDARD DETAIL• STANDARD SEARCH• STRENGTHS LIST• STRIKER DETAIL• STRIKER LIST• SUPPORT QUESTIONNAIRE• TASK DETAIL• TASK SEARCH		
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<ul style="list-style-type: none">• TAX INTERCEPT ACCOUNT• TAX INTERCEPT ACCOUNT SEARCH• TEMPLATE REPOSITORY SEARCH• TEST SCORES LIST• THIRD PARTY LIABILITY DETAIL• THIRD PARTY LIABILITY LIST• TIME LIMIT AID DETAIL• TIME LIMIT AID SUMMARY• TIME LIMIT SUMMARY• TMC / FOUR MONTH CONTINUATION ELIGIBILITY PERIOD LIST• TMC / FOUR MONTH CONTINUING ELIGIBILITY PERIOD DETAIL• TMC EDBC• TRAINING PROGRAM LIST• TRANSACTION DETAIL• TRANSACTION SUMMARY• TRANSACTION SUMMARY DETAIL• TRANSACTION TRANSFER DETAIL• TRANSFERRED PROPERTY DETAIL• UNEMPLOYMENT DEPRIVATION DETAIL• UNEMPLOYMENT DEPRIVATION LIST• UNIT DETAIL• UNIT SEARCH• UNIT SIZE DETAIL• UNREIMBURSED ASSISTANCE POOL• UTILITY ALLOWANCE TYPE DETAIL• VALUABLE DETAIL• VALUABLE INVENTORY• VALUABLE REQUEST DETAIL• VALUABLE REQUEST SEARCH• VALUABLE SEARCH• VALUABLE TYPE DETAIL• VALUABLE TYPE LIST• VENDOR INFORMATION DETAIL• VENDOR INFORMATION LIST• VERIFICATION DETAIL• VERIFICATION LIST• VETERANS DETAIL• VETERANS LIST• VITAL STATISTICS DETAIL• VITAL STATISTICS LIST• VOCATIONAL EDUCATION TRACK DETAIL		
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<ul style="list-style-type: none"> • VOCATIONAL EDUCATION TRACK SUMMARY • VOLUNTARY PLACEMENT AUTHORITY DETAIL • WARRANT DETAIL • WARRANT LIST • WDTIP ALERT DETAIL • WDTIP ALERT SEARCH • WEX/COMM. SERVICE HOURS CALCULATION DETAIL • WEX/COMM. SERVICE HOURS CALCULATION LIST • WITHDRAWAL DETAIL • WORK REGISTRATION DETAIL • WORK REGISTRATION LIST • WORKER DETAIL • WORKER SCHEDULE SEARCH • WORKLOAD REASSIGNMENT CONFIRMATION LIST • WORKLOAD REASSIGNMENT DETAIL • WPR SAMPLE DETAIL • WPR SAMPLE SEARCH • WPR SAMPLE SUMMARY • WTW STATUS DETAIL • WTW STATUS LIST 		
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Business Services

Component	Source	Ownership
<p>APSP Technical Frameworks / Templates</p> <p>The inventory of frameworks and templates in this layer are presented with the Technical Services Frameworks in the table in the Technical Services Layer section.</p> <p>In the Business Services layer, business services can integrate with portal, workflow engine, and external interface to perform business related tasks for LRS.</p>	APSP	Accenture



Functional Domain layer

Inventory of the components of the Functional Domain Layer

Functional Domain Components

The LRS functional domains are related pieces of application functionality, organized to align with the key business processes of DPSS. The functional domain components are items that may cut across and be shared by several different domains. Items such as business rules, batch programs and interfaces, forms, reports, and correspondence are examples of functional domain components. Most domain components will be developed or modified specifically for LRS. Examples are provided below.

Component	Source	Ownership
Processes For example: <ul style="list-style-type: none">• Approval Process• Others• Workflow Templates	APSP provides generic Approval process and Workflow Templates. LA County specific processes developed for LRS.	Accenture for generic Approval process and initial Workflow Templates. LA County for configured Processes.
Business Rules C-IV Derivative business rules customized for LA County	LA County specific business rules developed for LRS	
Batch and Interfaces C-IV Derivative batch and interfaces customized for LA County	LA County specific batch and interfaces developed for LRS	
Forms C-IV Derivative forms customized for LA County	LA County specific forms developed for LRS	
Reports C-IV Derivative reports customized for LA County	LA County specific reports developed for LRS	
Correspondence/Letters C-IV Derivative batch and interfaces customized for LA County	LA County specific correspondence/letters developed for LRS	



Service Integration layer

Inventory of the Enterprise Data Bus (EDB) function

LRS includes an EDB. Within the architecture, Technical Services and Business Services can communicate with each other directly or using the EDB. The EDB offers an additional degree of interoperability using industry web-services from WS-I (Web Service Interoperability) and OASIS (Organization for the Advancement of Structured Information Standards).

The EDB primarily comes into communication scenarios involving data exchange with external systems and parties. "External" means the system is external to the LRS application.

Technical, Business, and Integration Services use APSP Technical Frameworks / Templates within the Shared Components and Security Services layers, described in the following tables.

Component	Source	Ownership
Interface and Integration Services¹ LRS will interface with external systems and shares services with other County applications and services securely and efficiently. LRS will use an Enterprise Data Bus (EDB) for external communication and message brokering between applications and services it presents to the Users. <ul style="list-style-type: none">• It reduces the number of point-to-point communication connections between applications, simplifying the process of adapting the LRS to changes in any of its singular components.• It also presents the mechanism/middleware by which other applications can integrate to LRS (3.5 Req. 3).• Specifically, using the service repository and the EDB allow for integration through the SOA framework.• In addition, LRS also will have the appropriate levels of Application Programming Interfaces (APIs) exposed for integrating third-party tools (3.5 Req. 4)	3 rd -Party Software OEM	Per 3 rd Party License

¹ See section 18.4.3.5 LRS Proposed Solution



Technical Services layer

Inventory of the Technical Services Layer

APSP components of the Technical Services layer consist of: (1) Accenture built Technical Services and (2) Technical Frameworks / Templates (categorized as Common Architecture Services) that reside in the Technical Services layer.

APSP Technical Services provide the services for all the other LRS layers: Presentation, Integration Enterprise Data Bus (EDB), Shared Components, Data, Security and Infrastructure.

To provide greater levels of components re-use and to support many granularity levels of services, APSP provides the services and frameworks needed to meet the unique system-to-system requirements of LRS.

Component	Source	Ownership
APSP Technical Services The Shared Components Services layer contains the APSP Technical Services, which include: <ul style="list-style-type: none">• Address Normalization Service• Rules Engine Integration Services• Code / De-Code Service• Mail Helper Service• Process Invocation Service• Human Task Workflow Interface / Service• Security Audit Services• Reporting Service Interface• Document Management Integration Service• Form Management Services (Form Rendering) <i>See detailed tables on following pages</i>	APSP	Accenture
APSP Technical Frameworks/Templates The Common Architecture Services consist of APSP Technical Frameworks and Templates. Frameworks are the code shells for development of components of the LRS system, such as Technical Services and Business Services. They include: <ul style="list-style-type: none">• Proximity Search Control• Identity / Phonetic Name Search Control• Effective Dating Utility• Exception Handling Framework• Application Integration Framework• SOAP over HTTP Integration Adapter / Connector• SOAP over JMS Integration Adapter / Connector• Oracle Universal Content Management Provider Implementation• Forms Architecture Framework• Correspondence Architecture Framework• Simple Reference Application for Architecture• Batch Job Dispatcher• ILOG JRules Concrete Adaptor for Rules Service• ILOG JRules Implementation Interface• Encryption Service	APSP	Accenture



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<i>See detailed tables on following pages</i>		
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Descriptions of Accenture built Technical Services and Technical Frameworks / Templates (categorized as Common Architecture Services) that are presented on the previous pages and reside in the Technical Services Layer

Component		Description
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]



APSP Technical Frameworks/Templates

Component	Description
Proximity Search Control	Custom service that integrates with ESRI ARCGIS and other products to provide proximity and address normalization services
Identity / Phonetic Name Search Control	The Identity /Phonetic Name Search Control provides the capability to search identity data inside large databases. It is a Spring-controller that invokes the Informatica Identity Resolution (IIR) (updated version of SSA-Name3) search service.
Effective Dating Utility	The Effective Dating Utility provides an extensible effective dating framework that provides continuous and non-continuous effective dating methods. Non-continuous dating will allow conditional gaps in date ranges for data entities based on configurable type codes.
Exception Handling Framework	This framework provides application developers with a consistent way to handle exceptions across the application whether from services or object oriented components.
Application Integration Framework	APSP Integration Services provides the integration and messaging backbone of APSP-based applications. It uses open source protocols so it is not tied to a particular EDB or integration package.
SOAP over HTTP Integration Adapter/Connector	APSP connector that enables Simple Object Access Protocol (SOAP) to web services through the HTTP transport protocol, facilitating the integration and calling of web services.
SOAP over JMS Integration Adapter/Connector	APSP connector that enables Simple Object Access Protocol (SOAP) to web services through the JMS transport protocol, facilitating the integration and calling of web services.
Oracle Universal Content Management Provider Implementation	Integration of Oracle Universal Content Management Provider Interface to provide document management and content management capability in APSP.
Forms Architecture Framework	The Forms Architecture Framework integrates Adobe LiveCycle forms within the overall APSP framework container to provide forms services for online applications.
Correspondence Architecture Framework	The Correspondence Architecture Framework provides for the ability to jointly handle singular, highly customized correspondence and high-volume, dynamic content correspondence. The correspondence architecture merges a layout with data to produce correspondence, then routes that correspondence to a printer, content management software or browser/PDF.
Simple Reference Application for Architecture	This is a case management reference application that provides validation that the APSP technical architecture is configured properly.



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Batch Job Dispatcher	Custom job dispatcher to handle asynchronous batch execution using batch database queue.
ILOG JRules Concrete Adapter for Rules Service	ILOG JRules APSP implementation for in memory rules execution.
ILOG JRules Implementation Interface	This is an interface that allows a business object or service to call ILOG JRules. It is built with open standards that other rules engines could be called by the interface.
Encryption Services	An encryption service and enablement service for APSP.



Data Services layer

Inventory of the Data Services Layer

The Data Services layer contains the COTS products and APSP frameworks required to meet LRS's high volume, response time, and scalability requirements.

APSP includes implementations of the JDBC and Oracle data access libraries that help make database and storage systems more available to the entire LRS application.

Component	Source	Ownership
Data Access Framework The data access framework provides access to the database layer provides scalable and manageable database access. <ul style="list-style-type: none">• Java Persistence API (JPA) Native Queries Extension—A software component that provides for integration between the business services and transaction layer and the data layer using JPA open standard.• Java Persistence API (JPA) DAO (Data Access Object) extension—A software component that provides for the integration of data access objects into the overall application. This allows the reuse of data access objects that come from java applications following the Model-View-Controller framework.• Data Abstraction Template—An abstract Data Access Object that provides developers with a template to create and modify existing data access objects in a manner decoupled from the underlying database implementation.	APSP	Accenture
Database The data layer contains the databases of the system. The data tables contain C-IV derivative works as well as LRS specific tables and data. Most, if not all data, is the property of LA County.		



Security Services Layer

Inventory of the Security Services Layer

The Security Services layer contains the COTS products and APSP frameworks required to meet security requirements. APSP includes implementations of the COTS security products that help make their secure features and capabilities more accessible to the entire LRS application.

Component	Source	Ownership
<p>APSP Technical Frameworks/Templates</p> <p>The Security Services consist of APSP Technical Frameworks and Templates. These specific frameworks are code shells for development of components requiring secure authentication, authorization, and/or auditing. They include:</p> <ul style="list-style-type: none">• Spring Security Authentication Abstract Implementation<ul style="list-style-type: none">– The APSP Authentication Service accesses a 3rd Party WAC (Web Access Control) tool (e.g. Oracle Access Manager, Sun Access Manager, IBM Tivoli Access Manager, Site minder, etc) and Spring Security to provide an enhanced security platform. APSP Security Authentication uses the authentication service of the COTS WAC and that of Spring Security to provide a powerful, flexible security solution for Enterprise web applications.• Spring Security Authorization Abstract Implementation<ul style="list-style-type: none">– The APSP Authorization Service accesses a 3rd Party WAC and Spring Security to provide an enhanced security platform. The APSP Authentication services abstraction architecture insulates the application from changes in security infrastructure, allowing for ease of maintenance and data access for easy-to- generate audit reports.• Oracle Access Manager Spring Security Provider Implementation<ul style="list-style-type: none">– APSP implementation of the Oracle Access Manager integrated with the Spring security authorization framework. It provides an abstraction layer for easier maintenance, or transition to an upgrade of the Oracle Access Manager or other product.• Oracle Entitlements Server Provider Implementation<ul style="list-style-type: none">– APSP implementation of the Oracle Entitlements Server integrated with the Spring security authorization framework. It provides ease of maintenance and easier transition to an upgrades	APSP	Accenture



APSP Documentation Inventory

APSP supplies the design architecture that enables the Business Services and Technical Services to interact with the major architecture elements of the system, including Portal, SOA, EDB, BPM (Business Process Management), BRM (Business Rules Management), ECM (Enterprise Content Management), WAC (Web Access Control), and AAA (Authentication, Authorization, and Attestation).

This is a list of documentation currently produced by Accenture as part of APSP. Not all available documentation is relevant to LRS.

APSP Design Architecture

- Portal
- Service Oriented Architecture (SOA)
- Enterprise Data Bus (EDB)
- Business Process Management (BPM)
- Central Business Rules Management (BRM)
- Enterprise Content Management (ECM)
- Web Access Control (WAC)
- Authentication, Authorization, and Auditing (AAA)

APSP Design Artifacts

- TA223 APSP Application Architecture Specification - Application Services
- TA223 APSP Application Architecture Specification - Common Services
- TA223 APSP Application Architecture Specification - Integration and Business Process Management
- TA223 APSP Application Architecture Specification - Portal
- TA223 APSP Application Architecture Specification - Security
- TA235 APPS Execution Environment Specification - Security
- TA235 APSP Execution Environment Specification - Application Services
- TA235 APSP Execution Environment Specification - Common Services
- TA235 APSP Execution Environment Specification - Integration and Business Process Management
- TA235 APSP Execution Environment Specification - Portal
- APSP Decision Guide to Portal Implementation
- APSP Portal Security Guide
- TA355 APPS Oracle Access Manager Integration with Spring Security
- TA355 APSP Administration-Provisioning Service Design
- TA355 APSP Application Server Services Design
- TA355 APSP Audit Service Design
- TA355 APSP Authentication Service Design
- TA355 APSP Authorization Service Design
- TA355 APSP Batch Services Design
- TA355 APSP Business Activity Monitoring
- TA355 APSP Business Rules Services Design
- TA355 APSP Code Table Service Design
- TA355 APSP Common Services - Caching
- TA355 APSP Common Services - Data Access
- TA355 APSP Common Services - Event Notification
- TA355 APSP Common Services - Mail Helper
- TA355 APSP Configuration Framework
- TA355 APSP Content Management Services Design
- TA355 APSP Correspondence Services Design
- TA355 APSP Effective Dating Services Design
- TA355 APSP Encryption Service Design
- TA355 APSP Enterprise Data Bus
- TA355 APSP Exception Handling Design



- TA355 APSP Forms Services Design
- TA355 APSP How-To Document - Consuming Axis2 Web Service on Portal
- TA355 APSP Human Task Service Design
- TA355 APSP Interaction Services - Accessibility
- TA355 APSP Interaction Services - Browser Neutral Framework
- TA355 APSP Interaction Services - Content Rendering - Diagrams
- TA355 APSP Interaction Services - Content Rendering
- TA355 APSP Interaction Services - Customization
- TA355 APSP Interaction Services - Duplicate Submit Control
- TA355 APSP Interaction Services - Form Management Services
- TA355 APSP Interaction Services - Help Services Framework
- TA355 APSP Interaction Services - How to leverage APSP-Arch Portal and Web Utility Components
- TA355 APSP Interaction Services - Mobile Device Delivery
- TA355 APSP Interaction Services - Multilingual Support
- TA355 APSP Interaction Services - Page Template-Layout Components
- TA355 APSP Interaction Services - Pagination Services
- TA355 APSP Interaction Services - Portal Navigation
- TA355 APSP Interaction Services - Presentation User Interface Controls
- TA355 APSP Interaction Services - Print Friendly Framework
- TA355 APSP Interaction Services - UI Controller-MVC framework
- TA355 APSP Interaction Services - Unified User Profile
- TA355 APSP Interaction Services - Validation
- TA355 APSP Logging Service
- TA355 APSP Process Invocation Service Design
- TA355 APSP Reporting Services Design
- TA355 APSP Search Services Design
- TA355 APSP SOA Governance - Design and Build
- TA355 APSP SOA Governance - Runtime
- TA355 APSP SSO Integration Service Design
- TA355 APSP Web Service Security Design

APSP Developer Guides and Guidelines

- APSP Decision Guide to Portal Implementation
- APSP Portal Guidelines - Accessibility
- APSP Portal Guidelines - Implementing Security
- APSP Portal Guidelines - Unit Testing Portal Applications
- How-To APSP Business Process Management Guidance
- How-To APSP Enterprise Data Bus - Integration Guidance
- How-To APSP Lightweight Business Process Management Approach Guidance
- How-To APSP Service Oriented Architecture Governance Guidance
- How-To APSP Web Application Security Guidelines
- APSP Portal Developer Guide - Validation In Spring Portlets
- APSP Portal Developer Guide - Browser Neutral Framework
- APSP Portal Developer Guide - Consuming Web Services
- APSP Portal Developer Guide - Content Rendering
- APSP Portal Developer Guide - Customization
- APSP Portal Developer Guide - Help Services
- APSP Portal Developer Guide - How to configure SyncEx Portlets
- APSP Portal Developer Guide - Leveraging APSP Architecture Components
- APSP Portal Developer Guide - Leveraging APSP Shared Libraries
- APSP Portal Developer Guide - Look and Feel in WebLogic Portal
- APSP Portal Developer Guide - Mobile Device Delivery
- APSP Portal Developer Guide - Multilingual Support
- APSP Portal Developer Guide - MVC framework
- APSP Portal Developer Guide - Presentation User Interface Controls



- APSP Portal Developer Guide - Unified User Profile - How to configure Shared Library
- How To APSP Address Validation Cookbook
- How To APSP Adobe Lifecycle Correspondence Service
- How To APSP Adobe Lifecycle Forms Service
- How to APSP Batch Dispatcher
- How To APSP BPM Proxy Human Task Service Developer Guide
- How To APSP BPM Proxy Human Task Service Implementation Guide
- How To APSP BPM Proxy Process Invocation Service Developer Guide
- How To APSP BPM Proxy Process Invocation Service Implementation Guide
- How To APSP BPM Reference Application Installation and execution guide
- How To APSP Business Rules for ILOG JRules
- How To APSP Business Rules Services
- How To APSP Cognos Report Service
- How To APSP Correspondence Service
- How To APSP Data Access
- How To APSP Effective Dating Services
- How To APSP Effective Dating Services
- How To APSP Forms Service
- How To APSP Identity Resolution Cookbook
- How To APSP Mail Helper
- How To APSP Oracle Enterprise Repository
- How To APSP Oracle Service Bus
- How To APSP Oracle Service Registry
- How To APSP Oracle Secure Enterprise Search Services
- How To APSP Report Service
- How To APSP Search Services
- How-To APSP Audit Service Developer Guide
- How-To APSP Audit Service Implementation Guide
- How-To APSP Authentication Service Developer Guide
- How-To APSP Authentication Service Implementation Guide
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- How-To APSP Web Service Security Developer Guide

