Section 2—Integrated Services Backbone and CCMS Data Exchanges Overview

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1.0   Integrated Services Backbone Overview

The Administrative Office of the Courts (AOC) initiated the Integrated Services Backbone (ISB) project, being built and supported by the AOC Information Services Division (ISD), to deliver its vision of a common service integrating common court management services, data, and applications with justice partner systems and applications. The ISB is intended to improve court operations by:

- Providing the courts with the ability to share information electronically with their service providers and business partners.

- Standardizing court applications such as case management and benefits provider systems.

- Provide interoperability across platforms, (e.g., legacy/mainframe application and client/server.)

- Provide cost effective technology solutions.

- Improving speed to market (i.e., faster implementations.)

The ISB architecture provides enterprise application integration using a Service Oriented Architecture (SOA). ISB acts as a gateway and messaging layer for all data exchanges between the CCMS core product and all external systems. ISB will be the communication medium between CCTC-hosted and locally hosted CCMS instances. The integration solution will leverage the existing ISB solution at the California Courts Technology Center (CCTC) will and integrate with ISB installations at the local courts.

The CCMS data exchanges will leverage the ISB framework for all framework services within the ISB (e.g., security, logging, retry and replay framework, and exception handling). It is assumed that all framework services pre-exist and will be reused when the CCMS data exchanges are developed. The ISB logical architecture following the AOC layered security model is divided into four layers as depicted in Figure 1.
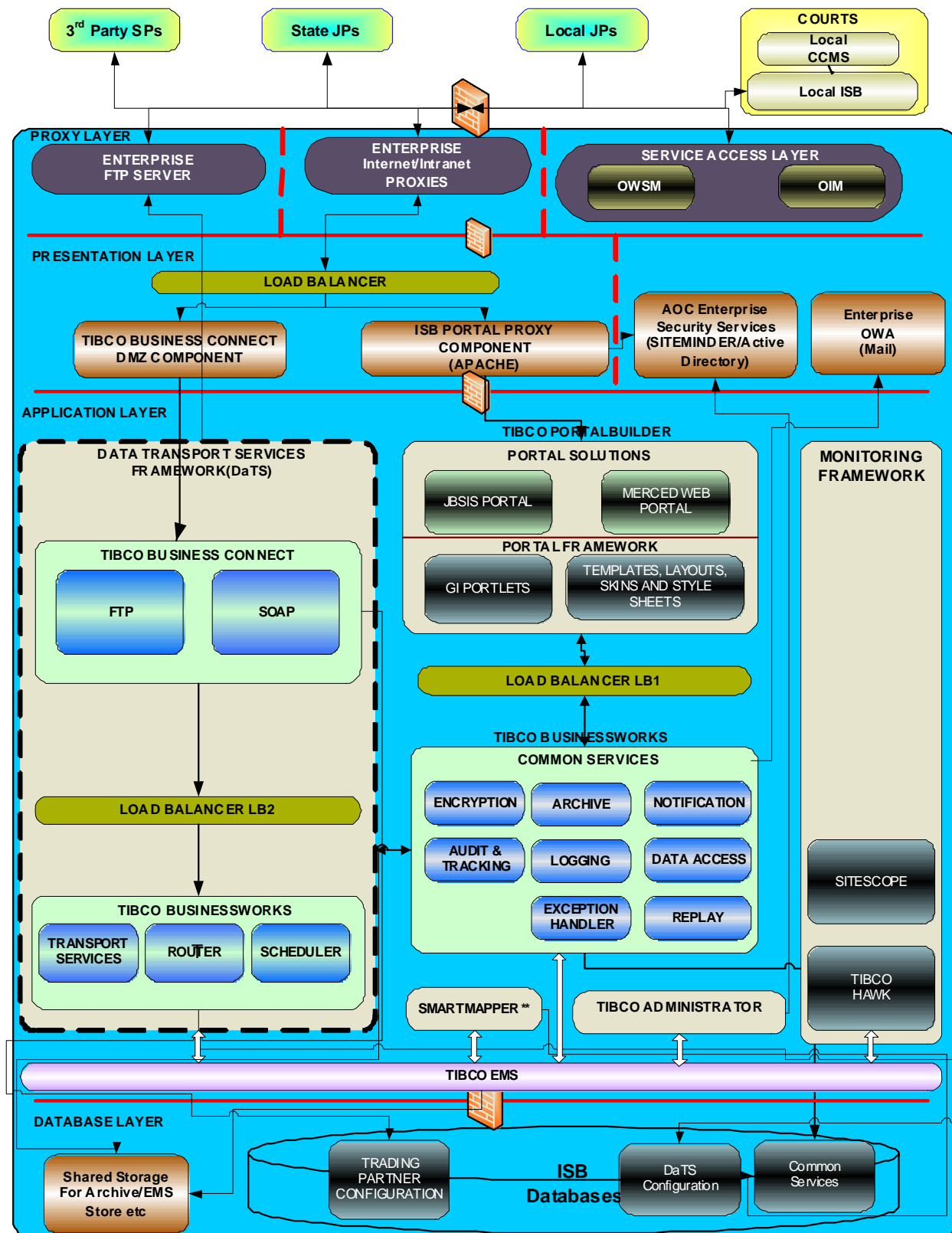
Figure 1. AOC ISB Logical Architecture

2.0 CCMS Data Exchange Overview

This document is the result of a series of design sessions facilitated by Deloitte involving subject matter experts from the trial courts and justice partner agencies. These sessions were aimed at identifying the exchanges, data elements, and business rules for court-inbound and court-outbound data exchanges associated with the CCMS core product.

Data exchanges will be built using the judicial branch Data Exchange Standard (DES), where available, which is based upon the National Information Exchange Model (NIEM). Superior Court and justice partner requirements not yet addressed by NIEM will be addressed by establishing schema extensions.

The data exchange track will accomplish the following business goals (to the extent possible based on the pre-defined scope of data exchanges):

- Implement standards based integration.

- Unify data exchange format across counties.

- Reuse interfaces across counties.

- Automate data exchanges.

- Eliminate redundant data entry.

3.0   List of CCMS Data Exchanges

Table 1 provides the approved list of data exchanges to be developed as part of the CCMS development project.

For traceability of data exchanges to CCMS core product system use cases and post-JAD use cases, see "Appendix D - CCMS-V4 Data Exchange Mapping to DES, CCMS-V4 Core and Post-JAD Use Cases."

Ref	Data Exchange Name
1	CCMS-V4-APP801 Receive Case Search Query
2	CCMS-V4-PF901 Send Case Participant Demographic Information Notification
3	CCMS-V4-PF802 Receive Additional Demographic Information Notification
4	CCMS-V4-PF903 Send State Bar Number Verification
5	CCMS-V4-PF804 Receive Case Participant In-Custody Indicator Notification
6	CCMS-V4-FN901 Send Courtesy Notice Print Request Notification
7	CCMS-V4-INI801 Receive Case Initiation Filing – Citations
8	CCMS-V4-INI802 Receive Case Initiation Filing – Felony, Misdemeanor and Infraction (FMI)
9	CCMS-V4-INI803 Receive Case Initiation Filing – Juvenile
10	CCMS-V4-INI804 Receive Case Initiation Filing – Small Claims
11	CCMS-V4-INI805 Receive Case Initiation Filing – Civil Limited/Unlimited
12	CCMS-V4-INI806 Receive Case Initiation Filing – Family Law (Adoption)
13	CCMS-V4-INI807 Receive Case Initiation Filing – Family Law (Marriage/Domestic Partnership with/without Child)
14	CCMS-V4-INI808 Receive Case Initiation Filing – Family Law (Complaint Regarding Parental Obligation)
15	CCMS-V4-INI809 Receive Case Initiation Filing – Family Law (Uniform Interstate Family Support Act (UIFSA))
16	CCMS-V4-INI810 Receive Case Initiation Filing – Family Law (Petition for Custody/Support)
17	CCMS-V4-INI811 Receive Case Initiation Filing – Family Law (Domestic Violence Prevention (DVP) with/without Child)
18	CCMS-V4-INI812 Receive Case Initiation Filing – Family Law (Registration of Judgment or Order)
19	CCMS-V4-INI813 Receive Case Initiation Filing – Family Law (Miscellaneous)
20	CCMS-V4-INI814 Receive Case Initiation Filing – No Complaint Filed (NCF)
21	CCMS-V4-INI815 Receive Employment Development Department (EDD) Case Upload
22	CCMS-V4-INI816 Receive Subsequent Case Filing
23	CCMS-V4-INI917 Send DCSS Answer Notification
24	CCMS-V4-INI918 Send Restraining Order POS Issuance/Cancel Notification
25	CCMS-V4-CRT901 Send Courtroom Order Notification

Ref	Data Exchange Name
26	CCMS-V4-DSP907 Send Parentage Inquiry Order Notification
27	CCMS-V4-DSP908 Send Seal Juvenile Record Order Notification
28	CCMS-V4-DSP911 Send Sentencing Report Order Notification
29	CCMS-V4-DSP913 Send Order After Hearing Notification
30	CCMS-V4-DSP915 Send True Finding on Juvenile 602 Case Order Notification
31	CCMS-V4-DSP816 Receive Proposed Order After Hearing (OAH)
32	CCMS-V4-DSP917 Send Restraining Order Issuance/Cancel/Update Notification
33	CCMS-V4-DSP918 Send Adult Commit Abstract Notification
34	CCMS-V4-DSP919 Send Juvenile Commit Abstract Notification
35	CCMS-V4-FCC801 Receive Traffic School Completion Notification
36	CCMS-V4-FCC802 Receive Traffic School Extension Request
37	CCMS-V4-FCC803 Receive Appearance Date Extension Request
38	CCMS-V4-FCC804 Receive Traffic School Enrollment Request
39	CCMS-V4-FCC905 Send Credit Card Payment Authorization
40	CCMS-V4-FCC806 Receive Payment Notification
41	CCMS-V4-FCC807 Receive Case Participant Balance Query
42	CCMS-V4-ACC801 Receive Victim Restitution Establishment Request
43	CCMS-V4-ACC802 Receive Cash Bail Notification
44	CCMS-V4-ACC803 Receive Bail Bond Notification
45	CCMS-V4-FSC901 Send Violation and Bail Schedule Update Notification
46	CCMS-V4-TRK901 Send Case File Destruction/Purge Notification
47	CCMS-V4-CAS801 Receive Case Summary Query
48	CCMS-V4-CAS902 Send Case Summary Notification
49	CCMS-V4-CAS903 Send Case Consolidation/ De-Consolidation Notification
50	CCMS-V4-CAS904 Send Public Defender Case Assignment Notification
51	CCMS-V4-CAS905 Send Booking Required Notification
52	CCMS-V4-CAS806 Receive Public Defender Assignment Notification
53	CCMS-V4-ISS901 Send Warrant Issuance/Recall Notification
54	CCMS-V4-ISS802 Receive Warrant Status Update Notification
55	CCMS-V4-ISS803 Receive Warrant Re-issuance/Purge Request
56	CCMS-V4-ISS804 Receive Warrant Proof of Service Notification
57	CCMS-V4-CAL803 Receive Court Resource Vacation Dates Notification
58	CCMS-V4-CAL801 Receive Calendar Event Request
59	CCMS-V4-CAL902 Send Calendar Event Notification

Ref	Data Exchange Name
60	CCMS-V4-COL901 Send Collections Case Referral Notification
61	CCMS-V4-COL902 Send Franchise Tax Board - Interagency Intercept Collections (FTB-IIC) Account Information Notification
62	CCMS-V4-COL903 Send Collection Balance Update Notification
63	CCMS-V4-COL904 Send Collections Recall Notification
64	CCMS-V4-COL805 Receive Collections/ Franchise Tax Board (FTB) Case Return Notification
65	CCMS-V4-PHX901 Send Disbursement Request
66	CCMS-V4-PHX802 Receive Disbursement Update Notification
67	CCMS-V4-PHX903 Send Monthly Fund Distribution Aggregate Summary Notification
68	CCMS-V4-PHX904 Send Daily Receipts Deposit Notification
69	CCMS-V4-PHX806 Receive Bad Check Notification
70	CCMS-V4-APL901 Send Case Transfer to ACCMS Notification
71	CCMS-V4-APL802 Receive Order, Disposition Order, Opinion Notification (ACCMS)
72	CCMS-V4-APL803 Receive Remittitur Notification (ACCMS)
73	CCMS-V4-DMV901 Send DMV Priors Query
74	CCMS-V4-DMV902 Send Abstract of Conviction Notification
75	CCMS-V4-DMV903 Send Failure to Appear Release Notification
76	CCMS-V4-DMV904 Send Failure to Pay Hold Notification
77	CCMS-V4-DMV905 Send Failure to Pay Release Notification
78	CCMS-V4-DMV906 Send Failure to Appear Hold Notification
79	CCMS-V4-DMV907 Send Failure to Comply Notification
80	CCMS-V4-DOJ901 Send Initial, Subsequent Disposition Notification
81	CCMS-V4-DOJ802 Receive Disposition Error Report Notification
82	CCMS-V4-FN902 Send Print Job Request Notification
83	CCMS-V4-FN903 Send E-Service Notification
84	CCMS-V4-CAS807 Receive Case Notice List Query
85	CCMS-V4-EXB801 Receive Exhibits List Notification
86	CCMS-V4-EFL801 Receive Accounting Reconciliation report from EFSPs Notification
87	CCMS-V4-INI819 Receive Case Initiation Filing – Mental Health
88	CCMS-V4-INI820 Receive Case Initiation Filing – Probate
89	CCMS-V4-INI921 Send Case Initiation Filing – Felony, Misdemeanor and Infraction (FMI)
90	CCMS-V4-INI922 Send Case Initiation Filing – Juvenile Confirmation Notification
91	CCMS-V4-INI923 Send Case Initiation Filing – Small Claims Confirmation Notification
92	CCMS-V4-INI924 Send Case Initiation Filing – Civil Limited/Unlimited Confirmation Notification

Ref	Data Exchange Name
93	CCMS-V4-INI925 Send Case Initiation Filing – Family Law (Adoption) Confirmation Notification
94	CCMS-V4-INI926 Send Case Initiation Filing – Family Law (Marriage/Domestic Partnership with/without Child) Confirmation Notification
95	CCMS-V4-INI927 Send Case Initiation Filing – Family Law (Complaint Regarding Parental Obligation) Confirmation Notification
96	CCMS-V4-INI928 Send Case Initiation Filing – Family Law (Uniform Interstate Family Support Act (UIFSA)) Confirmation Notification
97	CCMS-V4-INI929 Send Case Initiation Filing – Family Law (Petition for Custody/Support) Confirmation Notification
98	CCMS-V4-INI930 Send Case Initiation Filing – Family Law (Domestic Violence Prevention (DVP) with/without Child) Confirmation Notification
99	CCMS-V4-INI931 Send Case Initiation Filing – Family Law (Registration of Judgment or Order) Confirmation Notification
100	CCMS-V4-INI932 Send Case Initiation Filing – Family Law (Miscellaneous) Confirmation Notification
101	CCMS-V4-INI933 Send Case Initiation Filing – No Complaint Filed (NCF) Confirmation Notification
102	CCMS-V4-INI934 Send Subsequent Case Filing Confirmation Notification
103	CCMS-V4-INI935 Send Case Initiation Filing – Mental Health Confirmation Notification
104	CCMS-V4-INI936 Send Case Initiation Filing – Probate Confirmation Notification
105	CCMS-V4-CAL904 Send Calendar Event Request Confirmation Notification
106	CCMS-V4-ISS905 Send Warrant Re-issuance/Purge Request Confirmation Notification
107	CCMS-V4-DSP920 Send Proposed Order After Hearing(OAH) Confirmation Notification
108	CCMS-V4-CAS908 Send Public Defender Assignment Confirmation Notification
109	CCMS-V4-ACC904 Send Victim Restitution Establishment Request Confirmation Notification
110	CCMS-V4-ACC905 Send Cash Bail Confirmation Notification
111	CCMS-V4-ACC906 Send Bail Bond Confirmation Notification
112	CCMS-V4-EFL902 Send Clerk Review Rejection Notification
113	CCMS-V4-PF805 Receive Attorney Details by Bar Number Query
114	CCMS-V4-PF806 Receive Attorney Details by Name Query
115	CCMS-V4-CAL805 Receive Case Calendar Information Query
116	CCMS-V4-ISS806 Receive Civil Issuances Query
117	CCMS-V4-DSP821 Receive Probation Violations Update Notification
118	CCMS-V4-DSP822 Receive Probation Recommendation
119	CCMS-V4-DSP923 Send Probation Violations Update Confirmation Notification
120	CCMS-V4-PF807 Receive Family Unit Add/Update Request
121	CCMS-V4-PF908 Send Family Unit Add/Update Confirmation Notification

Table 1. List of Approved CCMS Data Exchanges

4.0 Data Exchange Business Rules Validation

This section provides an overview of the CCMS business rules implementation and validation in the context of data exchanges.

Data exchanges (both automated and clerk review) allow for exchange of information between the CCMS system and the integration partner systems.

The CCMS system has specific business rules and screen rendering rules that are employed in the application. These rules are also applicable to the content in the data exchanges. These specific rules are not documented within the data exchange functional specification document for the following reasons:

- To prevent duplication of documentation as business rules are documented in the core CCMS system and screen rendering rules are implied in the core CCMS screen specification documents.

- The rules are not implemented within the ISB, instead these rules are enforced within CCMS on the data exchange elements at the time of rendering the screen (for clerk review exchanges) or saving information to the database (for automated exchanges) in the core CCMS system.

Detailed below are the patterns and some sample scenarios where business and screen rendering rules are applicable, and how CCMS will act upon data submitted in the data exchange for these scenarios. While the list of patterns is intended to be exhaustive, the examples within each pattern are purely for illustrative purposes only.

- **Sub-section X.2** of each section of the CCMS final functional design deliverable: All screen and stem business rules documented in sub-section X.2 of each section of the CCMS final functional design deliverable are enforced within CCMS and not the ISB

- **Sub-section X.3** of each section of the CCMS final functional design deliverable: All screen specification rules are enforced within the CCMS and not the ISB. Example scenarios that fall into this category are:
    - **Data Types and Field Lengths**
        - For automated data exchanges, the data types and field lengths are expected to match the CCMS database, and are enforced in the ISB.
        - For non-automated exchanges, the data types and field lengths specified in the data exchange specification correspond to the screen specific element. The CCMS system may translate this, where applicable, to match the database specification before information is saved in the system. For example, an element indicating filing date can have a date data type in the data mapping sheet, but CCMS may translate this to date timestamp before the filing date is saved in the system.
    - **Drop-down Values:** Regarding dropdown values and parent-child relationships across dropdown values, the values in one dropdown field may control elements on the screen or values in other dropdowns. For instance, the set of case types will be

limited depending on the case category selected. The set of event types will be limited by calendar type, etc. In all these scenarios, the rules built into CCMS will also be applicable to the data exchange and enforced at the time of screen rendering or saving information to the database.

- **Non-configuration Data**: For dropdown values that list non-configuration data, the rules enforced in CCMS also apply to the data exchange content. For instance, the allowable values for the non-configuration data elements, parent-child dropdown dependencies, etc are enforced per the rules in CCMS.

- **Conditional Logic**: The following examples illustrate sample scenarios related to how conditional logic is implemented.

  o **Participant information**: In most instances where participant information is submitted via the data exchange, the participant can be either a person or an organization/entity. In these cases, the participant category data element will indicate whether a person or entity is being sent. Following that, person name or entity name can be sent. Since the branch for person and entity is optional in the XML structure, technically, the XML may allow both to be submitted, but this validation will be performed in CCMS at the time of screen rendering or saving to the database, where only one of the two will be selected depending upon the participant category and the incorrect/extra/orphan information will be dropped (i.e., will not be consumed by CCMS.)

  o **Resource information**: In some scenarios, only judicial officer or department information is applicable on the screen in CCMS, but the data exchange will include the ability to send both pieces of information, and these pieces will be optional. In this case, if both pieces are erroneously sent in, the XML will not limit this, but depending on the resource type sent, the screen will render or the database will save, only one of the two pieces, and the orphan elements will be dropped (i.e. will not be consumed by CCMS.)

  o **Filing attributes**: Depending on the case category and filing type, only a limited set of filing attributes are applicable in CCMS. This is outlined in the CCMS-V4-BR07-02 and CCMS-V4-BR07-03 documents. Data exchanges include a superset of filing attributes to accommodate all the filing types for a given case category that may be submitted via the data exchange if the filing information branch is a repeating branch (wherein multiple filing documents can be submitted). If some extra filing attributes that don't apply to the indicated/specified filing type are erroneously submitted, these orphan elements will be dropped (i.e., will not be consumed by CCMS before content is rendered on the screen or saved to the database.)

  o **Case attributes**: Similar to filing attributes, the superset of case attributes for a given case category is included in the data exchange. Only a subset (and not all) of those case attribute combinations are intended to be valid on the screen. A typical scenario involves the screen element is a dropdown value or a set of radio buttons, meaning that the superset of data elements in the data exchange corresponding to this screen will have mutually exclusive elements. The XML will not enforce this mutual exclusivity. If the integration partner does not send in the correct set of applicable case attributes, the check is enforced on the screen/database. If elements that are

mutually exclusive are sent in, the screen/database will only render/accept one set of the elements, depending on the case attribute type selected, and the remainder will be dropped (i.e., will not be consumed by CCMS.)