

EXHIBIT B

Technical Infrastructure/Architecture Requirements

I. Summary Statement

The Contractor will perform services necessary for the development and maintenance of the information technology system components (hereinafter "Modules") and services necessary to make operational the Minnesota Health Insurance Exchange (hereinafter "MNHIX") Information Technology (hereinafter "IT") Modules. Within these components, Contractor has duties, further identified below, and specifically related to the IT technical infrastructure and Architecture components of Contractor's Solution, functionally described in Exhibit A to the parties' contract.

Superscript references signify the Module numbers that the specific activity needs to coordinate, assist or interact with to either fully perform the activity or to utilized shared functionality.

In order to meet the requirements of Section 2 of the Contract, Contractor's Solution must include the following technical infrastructure and architectural components as well as the functional requirements identified in Exhibit A to the parties' contract. Additionally, the State must meet all of its duties identified below.

II. Entire Exchange Functionality

a. Contractor Duties

1. The Contractor will provide recommendations on the software and hardware architecture for the MNHIX. The State will have the final approval for all architecture decisions.
2. The Contractor will provide recommendations on the connection requirements to the State's electronic document management system for the MNHIX. The State will have the final approval for all architecture decisions.
3. The Contractor will provide recommendations on the Service Oriented Architecture (SOA) standards and guidelines for the MNHIX. The State will have the final approval for all SOA standards decisions.
4. The Contractor will provide recommendations on MNHIX interoperability design standards. The State will have the final approval for all interoperability design standards.
5. The Contractor will provide recommendations on a patch and vulnerability management policy for the MNHIX. The State will have the final approval for all architecture decisions.
6. The Contractor will provide recommendations on a disaster recovery plan for the MNHIX. The State will have the final approval for all disaster recovery plans.

7. The Contractor will provide recommendations on the Project management common communication plan for the MNHIX. The State will have the final approval for all communication plans.
8. The Contractor will provide recommendations on the Project management change control process plan for the MNHIX. The State will have the final approval for all change control process plans.
9. The Contractor will provide recommendations on a master work breakdown structure (WBS) for the MNHIX. The State will have the final approval for all WBS.
10. The Contractor will lead and take responsibility for master data management of the MNHIX exchange. The State will have the final approval for all master data management decisions.
11. The Contractor will provide recommendations on defined data standardization; that includes a common vocabulary and data definitions. NIEM standards shall be applied where practical. The state will have final approval authority over data standardization.
12. The Contractor will establish a standard reporting tool and methodology to be used throughout the MNHIX. The State will have the final approval for all reporting tool methodology decisions.
13. The Contractor will establish standard security guidelines/protocols for MNHIX communications within and outside the system. The State will have the final approval for all secure communication decisions.
14. The Contractor shall lead and coordinate a training program and User manual, not to exceed 100 hours for both internal and external Users. See training comment on page 11. Need to establish "train the trainer" format, number of trainers and the number of participants.
15. The Contractor will establish a common rules set with the ability for system wide access and utilization, consistent with the proposed solution.
16. The Contractor will create and establish the use of a MNHIX system navigation or progress bar for User eligibility and enrollment processes and most appropriate for self-service web capabilities. This display should advise the User as to where they are in the system and not just where they are in a particular process.
17. The Contractor shall develop a master testing plan. The master test plan shall include steps to complete User acceptance and performing integration testing components. The state will have final approval authority over the master test plan.

b. Contractor General Duties

1. The Contractor shall adhere to MNHIX architecture standards consistent with the proposed solution.

2. Once the final architecture is determined by the Contractor and the State, the Contractor shall help implement and manage a development infrastructure, including but not limited to:
 - A. Server infrastructure and all support, including but not limited to, OS, patches, physical component support, monitoring, management, and engineering
 - B. Network infrastructure
 - C. Appropriate software infrastructure for web tier, application tier, and data tiers; ESB; registry; rules and forms engines
 - D. Development tooling, including but not limited to, application development tools, modeling, version control, testing, load testing, bug tacking, change management
 - E. Project management tooling and methodology
 - F. Disaster recovery, including systems backups for the development environment.
3. The Contractor shall submit recommendations, questions, clarifications, etc. to the State for response and/or approval in a timely manner utilizing the deliverable acceptance criteria set forth in the contract.
4. The Contractor shall ensure rules engines can be implemented within service orientated architecture so it can be used as a service by different Modules and/or be called as a service by other systems.
5. The Contractor shall work within approved MNHIX interoperability design standards.
6. The Contractor's Solution will have capabilities to work with the State's electronic document management system and approved connections as determined by mutual agreement once the electronic management system and approved connections are defined.
7. The Contractor will adhere to all MNHIX SOA standards.
8. The Contractor will adhere to all vulnerability management policies.
9. The Contractor will submit a Solution disaster recovery plan(s). The Contractor shall adhere to all disaster recovery plans and ensure they are operational and tested.
10. The Contractor will contribute to test plan scenarios and information to establish a master test plan.
11. The Contractor will participate in a common Project management methodology and comply with the following, as outlined the State of Minnesota Professional and Technical Services Contract.
 - A. The Contractor will provide a lead Project manager.
 - B. The lead Project manager will participate in a Project management steering team.
 - C. The Contractor will follow the Project reporting plan.

D. The Contractor will comply with the Project change control process.

12. The Contractor will establish Work Breakdown Structures (WBS) and methodologies for development and delivery of milestones and deliverables. The State will have the final approval for all WBS.
13. The Contractor will establish a solution Project plan(s) to be included into the State's master Project plan.
14. The Contractor will follow the master data management plan within the MNHIX solution.
15. The Contractor will work with the State to develop an approved data standardization approach.
16. The Contractor will follow a standard reporting tool and methodology to be used throughout the MNHIX.
17. The Contractor will follow standard security guidelines/protocols for MNHIX communications within and outside the system, consistent with the Contractor's Solution.
18. The Contractor will endeavor to provide reasonable notice as possible to the state regarding the need for and scheduling of activities that involve State business resources.
19. The Contractor will participate in any joint training program and User manual not to exceed 100 hours for both internal and external Users. See training comment on page 11. Need to establish "train the trainer" format, number of trainers and the number of participants.
20. The Contractor will develop and design components to be reusable as appropriate and based on mutual agreement, across the MNHIX enterprise.
21. The Contractor will utilize reusable components as appropriate and based on mutual agreement, across the MNHIX enterprise.

c. State Duties

1. The State shall establish data retention policies for stored elements within the MNHIX.
2. The State will provide style specifications related to User interface for the MNHIX. These specifications will be based upon the deliverables from the UX 2014 Project.
3. The State will provide design specifications related to User selection preferences within the MNHIX. These specifications will be based upon the deliverables from the Consumer Choice (PBGH) project.

4. The State Project Manager will coordinate the involvement of business resources to facilitate the time that their involvement is required according to the Project schedule.
5. The State shall participate in a common Project management methodology.
 - A. The State shall provide a lead Project manager.
 - B. The lead Project manager will participate in a Project management steering team.
 - C. The State shall provide a Collaboration governance Structure.
 - D. The State shall follow the Project reporting plan.
 - E. The State shall follow a Project change control process.
6. The State shall respond to and/or approve submitted recommendations, questions, clarifications, etc. in a timely manner.

d. UX/Interface

1. The Contractor will incorporate State defined and mutually agreed upon specifications for a uniform User interface. These specifications will be based upon the deliverables from the 'Enroll UX 2014' project sponsored by the California HealthCare Foundation. The specifications will be provided by the State.
 - A. Where the Enroll UX2014 specifications do not provide sufficient direction or would not provide as good of a user experience, the Contractor will recommend alternatives to the State for approval of supplementary standards.
2. The Contractor will incorporate deliverable guidelines produced from the Consumer Decision Support Rules for Health Exchanges project conducted by the Pacific Business Group on Health (PBGH). The guidelines will be provided by the State.
3. The Contractor will provide a mechanism, most appropriate for self-service web capabilities (e.g. progress or status bar(s)) to advise Users of the steps it may require to complete the processes initiated by the User, as well as any information they may need to complete the process; these should be dynamic for different processes.
4. The Contractor's Solution will include a functional design that is flexible to support languages other than English, both as required by the State to-date and may be required during the lifetime of the MNHIX. The content provided at a later time would be translated and provided by the State.

e. Governance

1. The Contractor will be responsible for working with the State to develop the MNHIX.
2. In situations where disagreements between one or more contractors cannot be quickly resolved, the Prime Contractor will have final authority to resolve the disagreement.
3. The Contractor shall follow applicable Project management tasks and activities in accordance with the Project Management Institute's Project Management Body of Knowledge (PMBOK) Fourth Edition, and the PMBOK – Government Extension, or other State-approved standards by which to assess the Project.
4. The Contractor will endeavor to provide as much notice as possible to the State to facilitate the business resources' schedules.

Project Reporting Plan

The Contractor shall complete all reports required below:

Project Reporting Plan						
	Document Name	Recipient(s)	Purpose/Description	Process	Person Responsible	Freq.
1.	Project Status Report (PSR)	<ul style="list-style-type: none"> • State Project Manager • Contractor Project Manager 	<ul style="list-style-type: none"> • Document deliverable and Project schedule, accomplishments, plans, change mgt, acceptance mgt, lost time and issues • Basis for State Status Review 	<ul style="list-style-type: none"> • Uses ISR(s) and Project Plan as primary inputs. • Distribute prior to State Status Review 	Contract or Project Manager	Weekly
2.	Governance Committee Packet	<ul style="list-style-type: none"> • State Sponsor • Governance Committee Members 	<ul style="list-style-type: none"> • Document deliverable and Project schedule, accomplishments, plans, change mgt, acceptance mgt, lost time, risks and issues • 	<ul style="list-style-type: none"> • Uses ISR(s) and Project Plan as primary inputs. • Distribute prior to Governance Committee Meeting 	Contract or Project Manager	TBD based on Governance Committee Meeting Schedule
3.	Project Risk Assessment & Mitigation (PRA/M) Log	<ul style="list-style-type: none"> • State Project Manager • Contractor Project Manager 	<ul style="list-style-type: none"> • Document risks, priority, mitigation actions, owners, and target dates • Document progress on mitigation actions 	<ul style="list-style-type: none"> • Update progress on mitigation actions via the ISR (s) • Update risks, priority, mitigation during PRA/M – risk session 	Contract or Project Manager	Not longer than monthly and whenever a new risk is added to the report.

f. Related Project Functionality

1. The Contractor's Solution for MNHIX will have common features and functionality from each Module, as reasonable within the proposed solution.

2. The Contractor's Solution will be able to save or remember a User's current point within a session once the user has created an Account. This will allow them to return to the MNHIX and log on to complete the application and continue their activities or allow an authorized assistant such as an Assister or MNHIX help personnel to perform the remainder of the activities on behalf of the User.
3. The Contractor's Solution for MNHIX will be able to generate analytics of usage and load to help meet performance and User expectations. This functionality will also help system administrators identify potential problems that can then be addressed.
4. The Contractor's Solution will have online help functionality to assist individuals in navigating the application as well as page and field level help content. The online help should be screen, field and measurement indicator sensitive and direct individuals to documentation pertaining to the screen, field or measurement. The State must have the ability for business staff to change the help language at its discretion throughout the lifetime of the MNHIX.
5. The State shall be responsible for online education features for Users that includes explanations of terms and benefits .⁽⁴⁾
6. The Contractor will work with the State to present MNHIX content that is understandable and that is no higher than a 7th grade reading level.
7. The Contractor shall create and/or support the MNHIX ability to offer the opportunity for Users to use a decision support tool to narrow, prioritize, and evaluate their options or to complete the process without using a decision support tool.⁽⁴⁾
8. The Contractor will introduce IT components of the MNHIX that are interoperable within the MNHIX and with identified external systems, consistent with the Contractor's Solution.

9. The Contractor will design and develop MNHIX that enables State staff and system administrators (who may be persons with limited IT technical knowledge) to make changes to configurable components. The ability to make these changes should be conducted from within a business administration component or through the other product capabilities and under secured access.
10. The contractor will build an integrated MNHIX solution that will operate on the state's infrastructure. The MNHIX solution will need to achieve mutually acceptable performance and fault tolerance levels for the purposes of a 99.9% operational uptime.
11. The Contractor's will design and develop MNHIX to allow "real time" data processing displays to the User.
12. The Contractor will design and develop MNHIX to function within the following web browsers that are supported by their respected manufactures: Microsoft Internet Explorer 7.0.5730.13 and higher is supported for internal (caseworker) and external (self-service) users; Microsoft Internet Explorer 8 is supported for internal and external users; Mozilla Firefox up to and including Firefox 8 is supported for external users; Apple Safari is supported for external users; and Google Chrome up to Chrome 14 is supported for internal and external users. As browser manufacturers frequently release new versions, MNHIX will work with the browsers published on the MNHIX Website and update as appropriate.
13. The Contractor's solution will provide page response within 15 seconds of required data entry.
14. The Contractor will have the capability to be able to provide seamless, secure electronic transfer of household cases, information and referrals between Users of the system: workers, clients, system Users from organizations such as: DHS, Minnesota county human service agencies, Federal government, State government, tribal government, private outreach organizations, and other public assistance offices, providers, etc.
15. The Contractor will document security and accessibility roles, along with an established testing practice document.
16. The Contractor's Solution will allow changes or modifications made to a User's security role to be logged within the system.
17. The Contractor will design and develop the Solution so that any viewing or accessing of agreed upon non-public User, plan, or provider data can be logged within the system.

18. The Contractor's Solution, to the extent available, will conform to HIPAA or other State approved standard formats such as the 834 Enrollment Transaction.
19. The Contractor's Solution will incorporate relevant principles of NIST (e.g. NIST SP 800-37A) and other stated security standards as identified by the State.
20. The Contractor will design and develop the Solution to track metrics defined by the State related to how Users process and understand information presented. ^(4, 5, 7)
21. The Contractor's Solution will support interactions between Modules or components to allow required data elements to be shared which may require the development of an API, ESB or other mechanism, consistent with the proposed solution.
22. The Contractor will allow for the MNHIX to utilize standard processing functions as agreed upon, that need to be conducted throughout the system, in accordance with the approved SOA governance approach.
23. The Contractor's Solution for Account Administration will manage User accounts for the MNHIX.
 - A. Other Modules will be able to link or interact with necessary account information. ^(1, 2, 3, 4, 5, 6)
24. The Contractor's Solution security role methodology will be established and coordinated with other MNHIX activities and Modules, consistent with the proposed solution.
25. The Contractor's solution will allow the User process to save, exit, and then return at a later time shall be coordinated and displayed to the User through the account administration Module. ^(1, 2, 3, 4, 5)
26. The Contractor's Solution will allow administrative user interfaces for the MNHIX to originate from the account administration area. Access to these features would be conditional to the security settings (role) for an MNHIX administrator.
27. The Contractor will treat all documentation/data supplied by the State as not public data.

g. User Acceptance Testing (UAT)

1. The Contractor will facilitate support of UAT test scenarios which address the full life cycle of a case.

2. The Contractor and State will jointly review that use cases used to design the system are fully tested
3. The Contractor will investigate and resolve situations where actual performance or processing did not result in the expectations of joint UAT activities for the MNHIX, in accordance with proposed solution.

h. Knowledge Transfer/Training (KT)

The Contractor will providing the following Knowledge Transfer/Training support, not to exceed 100 hours:

1. The Contractor shall develop a master KT plan. The state will have final approval authority over the master knowledge transfer plan.
2. The Contractor shall contribute its solution(s)' specific KT plan information into the overall knowledge transfer plan.
3. The KT plan will cover at minimum:
 - A. KT techniques
 - B. Assessment of KT
 - C. Anticipated KT issues
 - D. Managing the KT process
 - E. KT curriculum and training materials
4. The KT plan will include an approved combination of:
 - A. Training courses
 - B. Mentoring
 - C. One-on-one learning
 - D. Role and organizational development
 - E. Skills evaluation
5. The Contractor will provide a classroom training experience with associated User manuals not to exceed 100 hours on any and all business rules management systems.
6. The Contractor will develop a train the trainer program and User manual for both internal and external Users. The State will have final approval authority over the training program and User manuals.

i. Rules Engine:

1. The Contractor will follow a common rules set with the ability for system wide access and utilization.
2. The Contractor will use the Solution's rules capabilities.
3. The Contractor shall ensure any rules be accessible in human readable format that is acceptable to the State.
4. The Solution will have the capability to allow rules to be implemented in a real-time enterprise environment and have date specific implementation management.
5. The Contractor's Solution will provide the capability to trace rule dependencies.
6. The Contractor will have a debugging process that analyzes and identifies logical errors across entire rule sets.
7. The Contractor will provide a review and approval process that helps to identify conflicts in business rules.
8. The Contractor will provide ability to test rules against a copy of production data prior to implementation and ongoing thereafter.
9. The Contractor will provide ability for MNHIX business administrators to modify the rule sets, as much as possible, without other interactions from IT or vendor.
10. The Contractor and State will jointly review any pre-populated rules in any Contractor proprietary system. The State shall have final authority and approval as to the accuracy and completeness of the rules. The Contractor will make necessary corrections to the rules to meet the State-specific implementation needs of the MNHIX in accordance with the agreed upon business requirements. Any the State provided business rule(s) will be provided in a format defined by the Contractor. This activity is necessary for, but not limited to, executable rules that determine eligibility for the Centers for Medicare and Medicaid MAGI Medicaid/CHIP, Advanced Premium Tax Credit, and individual exemption regulations.
11. The Contractor will ensure that Rules comply with the final release of CMS regulations provided by the State in a format defined by the Contractor.
12. The Contractor will provide rules engine technology and provide State information and documentation needed that is in compliance with the Rules Engine and Rules sections of Medicaid IT Supplement (MITS-11-01-v1.0): Enhanced Funding Requirements: Seven Conditions and Standards, or subsequent releases. <http://www.medicaid.gov/Medicaid-CHIP-Program-Information/By-Topics/Data-and-Systems/Downloads/EFR-Seven-Conditions-and-Standards.pdf>

13. The Contractor's Solution will have a rules engine that provides functionality to allow for manual override of specific rules. The overrides would be defined by the State prior to the establishing requirements. This functionality is required for reasons including, but not limited to, appeal decisions that conflict with established policy and potential errors in rules logic.
 - A. This functionality will allow for, at a minimum, a reason and start and end dates for the override to be in effect.
 - B. This functionality will allow the display of the overridden rules.
 - C. This functionality will allow for a report on override use per State requirements to ensure issues are resolved and to identify unusual trends, errors, or potential fraud.

j. Interfaces and Data Transfers

1. The Contractor will be responsible for the development of connections or interfaces with the systems listed in this item in relation to duties stated in Exhibit A. In the case of dual or multi-needs, the Contractor shall work with the State and other parties to ensure consistent and uniform connections or interfaces that will meet State and Federal guidelines. Interfaces will be needed to/from various State systems, including, but not limited to the following, in accordance with the proposed solution:
 - A. Medicaid Management Information System (MMIS)
 - B. MAXIS (State's eligibility system)
 - C. PRISM (State's Child Support Enforcement System)
 - D. DHS Shared Master Index (SMI)
 - E. Social Service Information System (SSIS)
 - F. Department of Public Safety, Driver and Vehicle Services division for addresses (DVS)
 - G. Department of Employment and Economic Development (DEED)
 - H. DHS Data warehouse, subject to definitions provided by the State
 - I. SWIFT
 - J. Invoice Processing,

Interfaces may also be needed to the following non-State systems:

- A. Federal Data Hub
 - B. State Electronic Rate and Form Filing System (SERFF)
 - C. Systematic Alien Verification for Entitlements System
 - D. Public Assistance Reporting System (PARIS)
 - E. TALX/Work Number
 - F. IVR System, once the solution IVR solution is defined, Contractor's Solution will have capabilities to expose data to the IVR system.
 - G. Premium Processing
2. The Contractor shall design error handling for each interface. The State will have final approval authority over the error handling standards/guidelines.

3. The Contractor will work with the State to develop a conversion plan to accomplish the successful data migration from DHS source systems (e.g. MAXIS, MMIS, SMI, and PRISM) to the appropriate MNHIX database(s) for the support of Medicaid/CHIP, if required. The plan shall include, but not be limited to identifying the steps required before, during, and after the initial system data conversion. Items addressed include data source identification, data cleanup requirements, data validation, data mapping, data conversion processes, data conversion resources, development of conversion automation software, manual data conversion, testing, trial conversions, creation of checklists, issue resolution, and conversion implementation. The state will have final approval authority over the conversion plan.

A. The Contractor will:

- i. Include a description of the Data Conversion Schedule shall be part of the conversion plan which includes a link to the Data Conversion Schedule.

B. Develop a conversion plan that addresses the following goals:

- ii. Use converted source data in integration and acceptance testing, to help identify data conversion and data integrity issues.
- iii. Automate data conversion as fully as possible. It may be necessary to perform manual data entry processes and cleanup in some instances.
- iv. Data conversion methods will be developed and tested to ensure maximum accuracy and timeliness.
- v. Determining what data to convert will be based on business processes that are defined in the MNHIX system

C. The Contractor will not be responsible for performing conversion activities under the scope of work.

4. The Solution will have the capability to receive an electronic acknowledgment of information from insurers.

k. Compliance

Use reasonable efforts with regard to the following:

1. The Contractor's solutions are flexible to support changing policies and business rules, interoperable within the MNHIX and with external systems, and scalable to allow the inclusion of new technology that enhances performance and the consumer experience.
2. The Contractor's design, development, and implementation of capabilities follow standard industry Systems Development Life Cycle (SDLC) frameworks including the use of iterative and incremental development methodologies. The Contractor must also be able to produce requirement specifications, analysis, design, code, and testing that can be easily shared with other interested and authorized stakeholders (i.e., other

States, consortia of States, or any entity that is responsible for establishing an Exchange).

3. The Contractor's Solution takes advantage of a Web Services Architecture (using XML, SOAP and WSDL or REST) and Service Oriented Architecture approach for design and development. The design for the MNHIX shall also allow for portability to a shared pool of configurable computing resources (e.g., Cloud Computing).
4. The Contractor will endeavor to develop any new services description/definition, services interfaces, policies and business rules, so they can be published in a State provided web services registry to support both internal and external service requests that are public and private, and be able to manage role-based access to underlying data.
5. The Contractor will endeavor to have a capability that is, pursuant to section 1561 of the Affordable Care Act, all solutions follow the standards that are currently outlined in the recommendations published by the Office of the National Coordinator (ONC). For details on Section 1561 Standards, see: <http://healthit.hhs.gov/aca/section1561>.
6. The Contractor will endeavor to develop, per National Institute of Standards and Technology (NIST) publications, solutions and implementation take into account security standards and controls. For details on NIST publications, see: <http://csrc.nist.gov/publications/PubsSPs.html> (specifically NIST SP 800-37A). Solution will incorporate CMS Acceptable Risk Safeguards to address safeguards for Personally Identifiable Information (PII), access control, authentication and other security requirements. Modules must comply, under the State's guidance, with the Health Insurance Portability and Accountability Act of 1996 (HIPAA) security and privacy requirements, including standards soon to be promulgated, see: <http://csrc.nist.gov/publications/PubsFIPS.html>. Module design must take into account Medicaid and Child Health Insurance Program privacy protections specified under Code of Federal Regulations (CFR), Title 42, sections 431.300 to .307 and 457.1110. Modules must also comply with the Federal Information Security Management Act of 2002 (FISMA). The State shall provide guidance and Contractor shall use good faith efforts to materially comply with such guidance.
7. The Contractor will design and develop such that information from the Social Security Administration (SSA) and the Internal Revenue Service (IRS) is safeguarded according to the requirements of the agency furnishing the data.
8. The Contractor will design and develop to assist the State so that information received under IRS code 6103(1) (7) is exchanged only with agencies authorized to receive that information.
9. The Contractor will endeavor to design and develop the solution to include usability features or functions that accommodate the needs of persons with disabilities and

limited English proficiency in accordance with the proposed solution. Modules must comply with the Minnesota IT Accessibility Standards effective September 1, 2010, which entails, in part, the Web Content Accessibility Guidelines (WCAG) 2.0 (Level AA) and Section 508 Subparts A-D which can be viewed at:
http://www.mmd.admin.state.mn.us/pdf/accessibility_standard.pdf .

10. The Contractor will endeavor to design and develop the solution where MNHIX IT systems interact with State Medicaid/Children's Health Insurance Program (CHIP) programs and align with the Medicaid Information Technical Architecture (MITA), in accordance with Exhibit B, Item j. Interfaces and Data Transfers. Consistent with Contractor's Solution, MNHIX IT systems also must interact with HHS and/or other Federal agencies and data sources in order to verify and acquire data as needed. It is expected that IT systems will support a high quality customer experience, as well as seamless coordination between Exchanges, Medicaid, CHIP, and other State health care programs and between the MNHIXs and insurers, employers, and Navigators/Brokers. See:
<http://www.cms.gov/Medicaid-Information-Technology-MIT/Downloads/exchangemedicaiditguidance.pdf>
11. The Contractor's Solution for MNHIX is able to generate data in support of performance management, public transparency, policy analysis, program integrity, and program evaluation within the proposed solution.
12. The Contractor will include requirements provided by the State and stated in the ACA and other federal guidelines into the solution. General sections of interest include sections 1301 through 2201 of the ACA.
See:
<http://www.healthcare.gov/law/about/The%20Full%20Law%20by%20Section/bysection.html>
13. The Contractor will endeavor to design and develop the solution that materially aligns with the Federal Exchange Business Process Flow.
14. The Vendor will follow all available guidance from CMS and CCIIO with regard to requirements and conditions of implementation, certification, funding and operation of HIX systems.
See:
<http://cciio.cms.gov/resources/regulations/index.html>
<http://www.medicare.gov/Medicare-CHIP-Program-Information/By-Topics/Data-and-Systems/Downloads/exchangemedicaiditguidance.pdf>

III. Current Platform

Software/Tools	Version	As of Date
Systems Software		
TiPlanet 6.1.5 web server	7.0	1-1-2012
Websphere Process Server	7.0.04	1-1-2012
Websphere Enterprise Service Bus	7.0.04	1-1-2012
Websphere Server (WAS)	7.0.0.21	1-1-2012
Oracle EE & RAC	11g (11.2.0.3)	1-1-2011
MQ Series	6.0	7-1-2007
PM4Data	8.5.1	1-1-2009
Websphere ILOG	7.0	1-1-2010
MN.IT Central IDM (Oracle)	11	N/A
SAS ETL	TBD	TBD
Arcsight Log Management	TBD	1-1-2012
WS-Security Datapower or Oracle Gateway	TBD	TBD
BMC Proactive-Net	8.62	5/2012
Alarm-Point (X-Matters)	4.1 (6)	5/2012
Systems Security Software		
LDAP	5.2 Service Pack 5	5/2012
Oracle IDM	11G	5/2012
Development Tools		
Rational Architect	7.5.5.1	1-1-2012

Rational Application Developer	7.5.5.1	1-1-2012
Websphere Integration Developer	7.0.04	1-1-2012
WTX Design Studio	8.3.0.3	1-1-2012
Metastorm Workbench	3.0	1-1-2012
UltraEdit-32	10.10a	2004
Toad	9.0.1	2004
Data Modeling – Oracle SQL Developer	3.1x	1.1.2012
Testing – Selenium, Testmaker	1.8, 6.0 (To be Purchased)	1-1-11
Development Frameworks		
J2EE	6 SDK 5.0.22	1-1-2012
EJB	3.0	1-1-2008
JSF	2.0	6-1-2008
Struts (if required)	1.2 (2.0.11)	1-1-2008
DHSBase (internal framework)	1.2.7	2004
Hibernate	3.6.3	1-1-2012
Apache Axis	1.4 (not used)	7-1-2007
Spring	3.0.5	1-1-2012
Jaxb	SDK	1-1-2012
Jax-ws	SDK	1-1-2012
Operating Systems		
Linux	TBD	1-1-2012
Solaris	10	1-1-2010

Enterprise DHS Standards, Systems, Tools, & Development Frameworks Within Tiers

