Qwest Communications, Inc.

XML Implementation Guidelines – for Interconnect Mediated Access (IMA) Release 21.0
Version 6

Date

April 6, 2007

Prepared by:
Qwest Communications, Inc. (Qwest)
Electronic Interface Services Team

For questions regarding this document, please contact

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Abstract:

This document will assist CLECs in understanding and successfully managing the process of implementing XML trading capabilities between their organization and Qwest. The information in this document is specific to the use of the XML interface to Interconnect Mediated Access system and should not be construed as being applicable to other XML interfaces available from Qwest.

Document Information

Document Owner: Electronic Interface Services–Team Lead

Document History

All revisions made to this document are listed here in chronological order.

Version	Date	Description
1.0	7/7/06	New Document for XML Interface 20.0
2.0	9/15/06	Add SATE WSDL, update Connectivity section re: Digital Certificates, updated the Implementation Overview, Negotiations, Connectivity and Progression Testing process diagrams, update Connectivity and Technical Information sections to provide additional configuration and technical information
3.0	10/16/06	Corrected the pull maximum – number of notices that can be requested per pull transaction from 500 to 100.
4.0	10/30/06	Corrected Production WSDL URLs.
5.0	02/05/07	Made updates to Technical Information section.
6.0	03/09/07	Made updated to Technical Section. Minor updates throughout.

Important: This document has been through a formal review process. To the best of our knowledge it is accurate. Qwest Communications, Inc. reserves the right to make further modifications, as necessary.

3. Implementation Activities

The use of XML provides an effective mechanism to automate the communication and processing of Order information and to reduce manual processes. The XML Implementation Process will progress according to an agreed upon plan and timeline. The typical project phases for CLECs implementing a given release will include:

1. **Initial Communications:** During this phase, all activities to initiate a CLEC's implementation are conducted, including the Kickoff conference call.

2. **Implementation or Migration Project Plan Negotiation:** During this phase, the Implementation or Migration Project Plan is proposed and negotiated.

3. **Requirements Review:** The Requirements Review phase provides an opportunity for a CLEC to review Qwest's XML system and business requirements and ask any questions they may have regarding those requirements.

4. **Connectivity Testing:** During this phase, CLEC connectivity is established and tested. This phase includes the set up of the Trading Partner configuration.

5. **Progression Testing:** This phase affords the CLEC the opportunity to validate their technical development efforts and to quantify LSR processing results in Qwest's Stand Alone Test Environment (SATE).

6. **Controlled Production:** This phase consists of the controlled submission of CLEC requests to the Qwest production environment for provisioning as production orders. Qwest and the CLEC use Controlled Production results to determine operational readiness for full Production turn-up.

7. **Production:** The CLEC is certified and able to submit full volumes of production LSRs and pre-order transactions to Qwest.

Migration

Release Lifecycles

The Qwest XML interface architecture provides the capability for multiple releases to be in production at a given time. This design allows a CLEC to continue production use of a particular release while performing the development necessary to migrate to a more current release. It is important that the CLEC be aware of the retirement date for the current release they are implementing, or currently using, and be prepared to migrate to a subsequent release as appropriate. XML releases have predetermined sunset timeframes, after which point they will be unavailable for use. It is the CLEC's responsibility to be aware of these timeframes and plan accordingly. Release timeframes are updated and posted to the CMP website located at:

<p align="center">http://www.qwest.com/wholesale/cmp/osscalendar.html</p>

Note: Use of the GUI interface, which is always the most current release, concurrently with a prior version of XML may not be viable due to differences between the two releases.

Migrating to a New Release

Qwest supports a multi-release strategy for its XML Interface. Information regarding the release schedule is posted on Qwest's Wholesale website. The Recertification memo for a new release is issued forty-five (45) days prior to the date the release is implemented in Production and contains specific XML-related dates for the release.

Qwest currently uses the following guidelines regarding the availability and retirement of releases:

- Each new release is scheduled to be available in the SATE environment thirty (30) days prior to its implementation in the production environment.

- IMA XML releases are supported six (6) months after the next release is implemented.

- Release guidelines in the Recertification memo are provided to the CLECs forty-five (45) days prior to a release. These include the dates by which a CLEC must begin Progression testing for a given release and when transactions on that release must be in Production by the CLEC. If these dates are not met by the CLEC, the CLEC must implement the next release.

These guidelines are designed to ensure the CLEC's successful implementation or migration and to minimize the risk associated with development and deployment of new software. Variations to this schedule may become necessary and any such changes will likewise be published to CLECs via the normal CMP communication channels.

Recertification Requirements

Recertification is the process by which CLECs demonstrate the ability to correctly generate and accept transactions that were updated for the new release. For each release, Qwest will determine which transactions require the CLEC to perform recertification testing. For a given release, it is possible that only some of the transactions will require recertification by the CLEC. That decision by Qwest will be based upon the following factors:

- Mapping changes
- Changes to Qwest business rules enforced by the system

Transactions requiring recertification will be made known to the CLEC in the Recertification Memo, issued with the Disclosure Documents for the new release. As detailed in the minimum requirements below, a migration test will be required for each product.

At the time a CLEC migrates to a new release, any transaction(s) that the CLEC does not yet have in production using a current IMA version is considered to be a new implementation effort. These transactions must be implemented using all Phases of the implementation lifecycle as defined in this document. In some releases, existing transactions are updated with significant additions that add business rules and/or large schema changes. If the CLEC intends to continue use of the product, they will be required to perform a new product implementation of this transaction. This will entail Progression Testing and Controlled Production submittal of scenarios that reflect the new functionality.

Please note that point releases and/or patches do not require recertification and should have no development impacts.

To recertify or migrate a given transaction, the CLEC must perform the following minimum test requirements in the SATE environment:

IMA Pre-Order Transactions - Recertification/migration minimum requirements:

Recertification or Migration:

> The CLEC must successfully test every transaction being migrated as indicated in the Recertification Memo. A successful transaction is one that receives a positive Response Type (i.e. 'Good' or 'Exact Match' response).

IMA LSR Order Transactions – Recertification/migration minimum requirements:

Recertification:

> The CLEC must successfully test each product being migrated if the product is listed in the Recertification Notice and at least one supplemental transaction (supp can be tested on any product). Qwest may suggest specific activity types and preorder query types to be tested based on the changes implemented for the specific release. Test transactions should use the suggested activity/query types being migrated to ensure the Qwest changes have been tested successfully. A successful transaction is one that passes the IMA system edits (i.e. does not receive a System Reject).

Migration Trading Partner Configuration Verification (TCV):

> The CLEC must successfully test at least one transaction for each product being migrated if the product is not listed in the Recertification Notice. A successful transaction is one that passes the IMA system edits (i.e. does not receive a System Reject).

IMA Post-Order Transactions - Recertification/migration minimum requirements:

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> The CLEC must test every notice response type being migrated if listed in the Recertification Notice. Please note that if the LR is changing Qwest will indicate the appropriate RT value to be tested.

Migration:

> The CLEC must test each notice response type being migrated if not listed in the Recertification Notice. Please note that the LR may be any RT Value.

There are many factors that will influence the CLEC's migration plan. These influences and the process for migration are discussed further in the following section of this document.

Migration Activities

CLECs will be reminded in writing of their need to migrate to a new release prior to the next release being implemented. For migration, the CLEC will follow the same process as an initial implementation except that Controlled Production is not required on any XML transaction that successfully completed Controlled Production testing in a prior release. Any product not successfully tested in Controlled Production in a prior release will not be migrated under this exemption.

The following steps will be followed by the CLEC:

1. Contact the Qwest-assigned Single Point of Contact (EIS REP).
2. Attend an initial migration kickoff call to discuss Recertification, migration strategy, and 'mid-cycle' data conversion.
3. Develop a migration Project Plan and mutually agree to assist in the scheduling of appropriate resources. This plan will identify the mutually-agreed-upon migration date and acknowledge the 'blackout dates' during which resources and systems may be unavailable to the Recertification/migration project.
4. Complete a Test Plan that includes tests to comply with all minimum testing requirements for a new release.
5. Perform the Progression Testing Phase – following the Migration Testing requirements outlined in the Recertification Memo.
6. Conduct Migration Readiness Assessment after the completion of testing.

Qwest Communications, Inc.

XML Implementation Guidelines – for Interconnect Mediated Access (IMA) 20.0
Version 4

Date

October 30, 2006

Prepared by:
Qwest Communications, Inc. (Qwest)
Electronic Interface Services Team

For questions regarding this document, please contact

Electronic Interface Services —Team Lead
(303) 965-4315
1005 17th St. RM 1050
Denver, Colorado 80202

Abstract:

This document will assist CLECs in understanding and successfully managing the process of implementing XML trading capabilities between their organization and Qwest. The information in this document is specific to the use of the XML interface to Interconnect Mediated Access system and should not be construed as being applicable to other XML interfaces available from Qwest.

Document Information

Document Owner: Electronic Interface Services–Team Lead

Document
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5. Perform the Progression Testing Phase – following the Migration Testing requirements outlined in the Recertification Memo.
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EDI Implementation Guidelines – for Interconnect Mediated Access (IMA)
- Version 19.2

Qwest Communications, Inc.

EDI Implementation Guidelines – for Interconnect Mediated Access (IMA)
Version 19.2

Date

April 24, 2006

Prepared by:
Qwest Communications, Inc. (Qwest)
Electronic Interface Services Team

For questions regarding this document, please contact

Team Lead – Electronic Interface Services (CLEC Implementation)
(303) 965-4315
1005 17th St. RM 1050
Denver, Colorado 80202

Abstract:

This document will assist CLECs in understanding and successfully managing the process of implementing EDI
trading capabilities between their organization and Qwest. The information in this document is specific to the use of
the EDI interface to Interconnect Mediated Access system and should not be construed as being applicable to other
EDI interfaces available from Qwest.

EDI Implementation Guidelines – for Interconnect Mediated Access (IMA)
- Version 19.2

Document Information

Document Owner: Qwest Lead IT Project Manager – Electronic Interface Services

Document History

All revisions made to this document are listed here in chronological order.

Version	Date	Description
1..0	01/07/00	Initial Distribution
2.0	04/12/00	Revised Distribution
3.0	12/08/00	Revised Distribution
4.0	04/23/01	Revised Distribution Note:
		VER 4.00 represents a rearrangement of prior IMA EDI information and the incorporation of Facility-Based Directory Listing implementation guidance. Changes to this document are reflected in archived redline/revision copies. Also, Certification Testing is now known as Controlled Production.
5.0	07/25/01	Revised to include Stand Alone Test Environment Implementation guidance and Service Bureau EDI Implementation Guidelines
6.0	10/11/01	The requirement for BANs to be loaded for EDI users was removed and a supplemental Order flow to Section 3, was added to the Technical Information.
7.0	11/09/01	Changed 'Testing' to 'Progression'. Added SATE data addition process. Moved information to Appendix A. Updated Appendix B - Service Bureau. URL links are live. Explained use of TPRs. Explained External Address Worksheet.
8.0	11/30/01	Clarifications included: Process for addition of data to the SATE environment -Process for negotiating manually-generated responses during the Progression Phase - Interaction of the Interoperability environment with Qwest OSS - Minimum FBDL testing requirements for Progression and Controlled Production - URLs were added/updated as necessary.
9.0	01/21/02	Section of FBDL removed- now an IMA product. Explanation of SATE VICKI added. Flow diagrams added. Staffing Plan added as Appendix C
9.0	02/18/02	Flow diagrams changed. Clarification of

April 24, 2006

Qwest Communications International, Inc.

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EDI Implementation Guidelines – for Interconnect Mediated Access (IMA)
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		Combining Interoperability and SATE in Progression Testing. The inability to submit a supplemental order via the GUI when initial order was sent via EDI and vice versa. Clarification on Non-Fatals sent after an FOC. Clarification of minimum test requirements for Implementation and Migration
10.0	05/03/02	Restructure of process information to improve flow. Clarification of minimum test requirements for Implementation and Migration.
11.0	10/02/02	Question log process expanded. Sate product list and hours of availability updated. Clarification of negative 997 testing. FBDL testing process updated.
12.0	02/20/03	Added requirement for FBDL that CLECs need to test additional listings. Clarified Jeopardy flow. Revised roles and responsibilities.
13.0	06/20/03	Updated Service Bureau requirements for connectivity and digital certificates. Updated X-12 examples to reference 13.0 standards. Clarified the process for responses that will be sent during Regression Testing. Further clarified Service Bureau section, pertaining to Qwest's requirements. Update the information surrounding Qwest responses due to the new LR response replacing the FOC, JEOP, NF, and FATAL. Updated SATE Product list.
14.0	10/24/03	Updated Requirements review activities and timelines associated with Question Logs. Updated IMA Data Conversion to include information regarding dates. Changes to Appendix A. Updated Migration Requirements. Added new FBDL testing requirements.
15.0	3/5/04	Updated the following process elements: Requirements Review: Question Log, Implementation/Migration processes (Negotiations, Controlled Production), Minimum Testing Criteria, Production Support, Template requirements.
15.1	5/3/04	Clarified Controlled Production Minimum Testing Criteria, Updated Service Bureau Lead definition
16.0	9/3/04	Update "Scenario Summary" and "Testing Status Log" to "Test Plan", Updated all Visio process diagrams, Clarified Migration language, Updated Router Configuration timelines, Clarified Digital Certificate coordination information; Updated CLEC requirements for migration projects in the Service Bureau appendix; Removed Appendix C: Qwest's EDI Implementation Staff Plan and Organizational Information

EDI Implementation Guidelines – for Interconnect Mediated Access (IMA)
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17.0	2/25/05	Added information regarding setup of Subscriber Responses for DLEC & LOA-authorized provisioning agreements, Updated Entrance/Exit Criteria for Controlled Production, Production and Migration Readiness Assessments, Removed the 14.0 information in the Question Log section, Updated Technical Information section with more current examples, Updated list of products available in SATE
17.1	6/27/05	Remove all references to the Interoperability Environment – Interop retired 6/27/05.
18.0	08/26/05	Updated hours of operation, Made updates related to Disclosure changes (removed reference to appendices etc.), clarified the response requirements.
19.0	02/24/06	Clarified Question Log posting when there are no updates, clarified the SATE Data Request process re: request denials and restriction against live production accounts, updated SATE product list, changed references to BPL Reject (RT value Z) to the new RT value V.
19.1	3/10/06	Corrected SATE product list to remove BRI ISDN Resale Order Submittal (contact Qwest for data), Updated Appendix C
19.2	4/24/06	Updated the Production: CLEC Roles and Responsibilities section to include limitations on health check statusing and gateway availability statusing. Updated the Requirements Review section to more clearly state the limitation regarding submission of a supplemental order via the GUI when initial order was sent via EDI and vice versa. Updated TPAI information –Trading Partner Relationship/Transport section to identify that Qwest is compliant with the Interactive Agent Issue 2 standards for Basic Messaging only.

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1. **Initial Communications:** During this phase, all activities to initiate a CLEC's implementation are conducted, including the Kickoff conference call.

2. **Implementation or Migration Project Plan Negotiation:** During this phase, the Implementation or Migration Project Plan is proposed and negotiated.

3. **Requirements Review:** The Requirements Review phase provides an opportunity for a CLEC to review Qwest's EDI system and business requirements and ask any questions they may have regarding those requirements.

4. **Firewall and IA-to-IA Connectivity Testing:** During this phase, CLEC connectivity is established and tested. This phase includes the set up of the circuit, pushing of firewall rules, Trading Partner Relationships and IA configuration.

5. **Progression Testing:** This phase affords the CLEC the opportunity to validate their technical development efforts and to quantify LSR processing results in Qwest's Stand Alone Test Environment (SATE).

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> IMPORTANT: For transmission of **post order responses** from Qwest to the CLECS (including: Provider Notification, Status Updates, Billing Completion Notifications, Pending Service Order Notifications and Batch Hot Cut Status Notifications):
>
> If any one CLEC (identified as an individual RSID/ZCID) elects to receive a given post-order response from Qwest (for either GUI or EDI responses), all other Trading Partners who also provision services using that RSID/ZCID will be configured to receive those post-order responses. This applies to all DLEC arrangements as well as to any other Shared RSID/ZCID or LOA arrangements that CLECS might have in place for provisioning purposes.
>
> The Main CLEC/Trading Partner must test the response transaction as part of the certification process. Any other Trading Partners using the RSID/ZCID of the Main CLEC/Trading Partner may elect to test that post-order response transaction and certify receipt of that subscriber response in Controlled Production or may elect in writing (e-mail is okay) to waive testing of that subscriber response. If the latter, then the customer must acknowledge that they understand they will still be receiving those transactions even though they have not implemented a map to translate the transaction.

At the time a CLEC migrates to a new release, any transaction(s) that the CLEC does not yet have in production using a current IMA EDI version is considered to be a new implementation effort. These transactions must be implemented using all Phases of the implementation lifecycle as defined in this document. In some releases, existing transactions are updated with significant additions that add business rules and/or large map changes. If the CLEC intends to use the new functionality, they will be required to perform a new product implementation of this transaction. This will entail Progression Testing and Controlled Production submittal of scenarios that reflect the new functionality. CLECs not intending to use the new functionality will be allowed to recertify existing functionality that is still available in the new release.

Migration Process

CLECs will be reminded in writing of their need to migrate to a new release prior to the next release being implemented. For migration, the CLEC will follow the same process as an initial implementation except that Controlled Production is not required on any EDI transaction that successfully completed Controlled Production testing in a prior release. Any product not successfully tested in Controlled Production in a prior release will not be migrated under this exemption.

When ready to begin the migration, the following steps will be followed by the CLEC:

1. Contact the Qwest-assigned EDI Single Point of Contact (SPOC).
2. Attend an initial migration meeting call to discuss Recertification, migration strategy, and 'mid-cycle' data conversion.
3. Develop a migration Project Plan and mutually agree to assist in the scheduling of appropriate resources. This plan will identify the mutually-agreed-upon migration date and acknowledge the 'blackout dates' during which resources and systems may be unavailable to the Recertification/migration project.
4. Complete a Test Plan that includes tests to comply with all minimum testing requirements for a new release.
5. Perform the Progression Testing Phase per the minimum testing requirements for those transactions that are to be migrated to the new release. The CLEC will be expected to execute the required minimum test case scenarios in the SATE environment and provide Qwest the PONs of the successful Scenarios. This will allow Qwest to verify during its Migration Readiness Assessment that the CLEC is ready to move into production on the new release.
6. Conduct Migration Readiness Assessment after the completion of testing.

Migration Exit Criteria

Migration will be considered complete when the CLEC has met all of the following criteria:

- CLEC has completed all agreed upon scenarios as identified in the migration Test Plan.

- CLEC has demonstrated the ability to send valid 850 and 860 transactions.

- CLEC can confirm their ability to receive from Qwest the 997, 855, and 865 transactions and appropriate preorder response transactions.

- CLEC has demonstrated the ability to generate 997 functional acknowledgements in response to Qwest 855 and 865 transactions.

- CLEC can confirm their ability to notify users of responses generated by Qwest, to indicate whether the submitted transaction was successfully processed.

- CLEC can confirm their ability to detect transaction processing failure within any component of the EDI environment.

Migration Process

CLECs will be reminded in writing of their need to migrate to a new release prior to the next release being implemented. For migration, the CLEC will follow the same process as an initial implementation except that Controlled Production is not required on any EDI transaction that successfully completed Controlled Production testing in a prior release. Any product not successfully tested in Controlled Production in a prior release will not be migrated under this exemption.

When ready to begin the migration, the following steps will be followed by the CLEC:

1. Contact the Qwest-assigned EDI Single Point of Contact (SPOC).
2. Attend an initial migration meeting call to discuss Recertification, migration strategy, and 'mid-cycle' data conversion.
3. Develop a migration Project Plan and mutually agree to assist in the scheduling of appropriate resources. This plan will identify the mutually-agreed-upon migration date and acknowledge the 'blackout dates' during which resources and systems may be unavailable to the Recertification/migration project.
4. Complete a Test Plan that includes tests to comply with all minimum testing requirements for a new release.
5. Perform the Progression Testing Phase per the minimum testing requirements for those transactions that are to be migrated to the new release. The CLEC will be expected to execute the required minimum test case scenarios in the SATE environment and provide Qwest the PONs of the successful Scenarios. This will allow Qwest to verify during its Migration Readiness Assessment that the CLEC is ready to move into production on the new release.
6. Conduct Migration Readiness Assessment after the completion of testing.

Migration Exit Criteria

Migration will be considered complete when the CLEC has met all of the following criteria:

- CLEC has completed all agreed upon scenarios as identified in the migration Test Plan.

- CLEC has demonstrated the ability to send valid 850 and 860 transactions.

- CLEC can confirm their ability to receive from Qwest the 997, 855, and 865 transactions and appropriate preorder response transactions.

- CLEC has demonstrated the ability to generate 997 functional acknowledgements in response to Qwest 855 and 865 transactions.

- CLEC can confirm their ability to notify users of responses generated by Qwest, to indicate whether the submitted transaction was successfully processed.

- CLEC can confirm their ability to detect transaction processing failure within any component of the EDI environment.