



**ATIS-0410002-0033**

**Unified Ordering Model (UOM)**

**Volume II - Analysis**

**For Access Service Ordering Guidelines (ASOG)**

**Version 58**



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## SUMMARY OF CHANGES ASOG V58

This issue of the Unified Ordering Model (UOM) – **Volume II** Analysis provides the analysis and details to support the Access Service Ordering Guidelines (ASOG) and the Unified Ordering Model – Volume I Business Requirements for Version 58. Changes to this document have been made in support of the following issues:

3607 3615 3617 3618

The following issues went into Final Closure; however, they resulted in no impact to the contents of this document:

3608 3611 3613 3614 3616

The following issues were Withdrawn:

XXXX

### Global Changes

- Change all ASOG 57 to ASOG 58; Version 57 to Version 58; Issue 32 to Issue 33
- Change ATIS document number from ATIS-0410002-0032 to ATIS-0410002-0033
- Update Issue Date
- Other grammatical and spelling corrections that do not impact the technical content of this document are not reflected in the Summary of Changes

### Table of Contents

- Updated to reflect new sections, re-numbered sections, and document re-pagination

## SUMMARY OF CHANGES ASOG V58

<b>UOM-ASR VOLUME II – SUMMARY OF CHANGES FOR ASOG V58</b>			
<b>Section #</b>	<b>Issue #</b>	<b>Model Object or Section Name</b>	<b>Description of Change</b>
5.2.1.4	3607	Clarification/Notification Request Text	Update text to include details on Address Modification (C/NR).
5.2.1.4	3607	Clarification/Notification Request Diagram	Update the sequence diagram to reference the Address Modification (C/NR).
5.2.1.4	3607	Clarification/Notification Request Diagram	Update the collaboration diagram and text to reference the Address Modification (C/NR).
5.2.1.5	3607	UOM Service Request Supplement Process Diagram	Update the sequence diagram and text to reference Address Modification (C/NR).
5.2.1.5	3607	UOM Service Request Supplement Process Diagram	Update the collaboration diagram and to reference Address Modification (C/NR).
5.3	3607	Post Confirmation Use Cases Text	Update Use Case diagram and text to include Address Modification.
5.3.1	3607	Address Modification Notification	Insert new section, Address Modification Notification, renumber subsequent sections.
5.3.1	3607	Address Modification Notification Text	Insert text for Address Modification Notification.
5.3.1	3607	Address Modification Notification Diagram	Insert sequence diagram for Address Modification Notification.
5.3.1	3607	Address Modification Notification Text	Insert text for Address Modification Notification.
5.3.1	3607	Address Modification Notification Diagram	Insert collaboration diagram for Address Modification Notification.
6.6.1	3607	ASR Notification Classes Text	Update the text to reference Address Modification.
6.6.1	3607	ASR Notification Classes Diagram	Update the diagram to reference ADDRESS_MOD_Type.
6.6.1.2	3607	Address Modification Notification	Insert new section, Address Modification Notification, renumber subsequent sections.

## SUMMARY OF CHANGES ASOG V58

<b>UOM-ASR VOLUME II – SUMMARY OF CHANGES FOR ASOG V58</b>			
<b>Section #</b>	<b>Issue #</b>	<b>Model Object or Section Name</b>	<b>Description of Change</b>
6.6.1.2	3607	Address Modification Notification Text	Insert text for Address Modification Notification (ADDRESS_MOD_Type).
6.6.1.2	3607	Address Modification Notification	Insert new Class diagram for Address Modification Notification (ADDRESS_MOD_Type).
7.1	3607	State and Activity Diagrams Text	Inserted text for Informational C/NR may be sent from Accept to Completion.
7.1	3607	State and Activity Diagrams	Update references for QueryonHold and ErrorCNRPending States to reference Address Modification Notification.
6.4.1.2.8	3617	Transport	Insert the new optional attribute LATENCY of type InformationRate_Type after the existing MSFS attribute.
6.4.1.3.8	3618	SALI	Modified the multiplicity of the LAT_LONG attribute on the association from SALI to LAT_LONG_ComplexType from Required to Optional.
6.4.1.3.11	3615	EVC_DETAILS	Add a new attribute OAM_IND with a new type, OAM_Type after the existing NUT attribute.
6.4.1.3.11	3615	EVC_DETAILS	Create a new association to OAM_DETAIL, maximum of 1 occurrence, optional.
6.4.1.3.11	3615	OAM_DETAIL	Within this new Class, add the following attributes: <ul style="list-style-type: none"> <li>• OAM_ACT (utilizing existing Type ACT_Type)</li> <li>• MEG_L (utilizing new Type MEG_L_Type)</li> <li>• MEP_ID (utilizing existing Type VLAN_Type)</li> <li>• SMAN (utilizing new Type SMAN_Type)</li> <li>• SMANF (utilizing new Type SMANF_Type)</li> <li>• SMM (utilizing new Type SMM_Type)</li> </ul>
6.4.1.3.11	3615	OAM_DETAIL	Create a new association to P_MID_LIST, maximum of 10 occurrences, optional.
6.4.1.3.11	3615	P_MID_LIST	Within this new Class, add the following attributes: <ul style="list-style-type: none"> <li>• P_ACT (utilizing existing Type ACT_Type)</li> <li>• P_MID (utilizing existing Type VLAN_Type)</li> </ul>
6.6.1.3	3615	VC	Within this existing Class, add the following RVCI: <ul style="list-style-type: none"> <li>• MEP_ID (utilizing existing Type VLAN_Type)</li> <li>• SMAN (utilizing new Type SMAN_Type)</li> </ul>
6.6.1.3	3615	VC	Create a new association to P_MID_LIST, maximum of 10 occurrences, optional.

## SUMMARY OF CHANGES ASOG V58

UOM-ASR VOLUME II – SUMMARY OF CHANGES FOR ASOG V58			
Section #	Issue #	Model Object or Section Name	Description of Change
6.6.1.5	3618	PROVIDER_TEST_ACCEPTANCE	Update the position of the UREF attribute within the PTA_EVC Class from position 2 (after SVLAN) to position 1 (before SVLAN). No impact.

## Change History

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Issue #	Document Release	Description of Changes
33	R1	<b>Initial version for ASR 58</b>
32	R1	Initial version for ASR 57
31	R1	Initial version for ASR 56
30	R1	Initial version for ASR 55
29	R1	Initial version for ASR 54
28	R1	Initial version for ASR 53
27	R1	Initial version for ASR 52
26.1	R1	Revision to align Error_ComplexType model with schema
26	R1	Initial version for ASR 51
25	R1	Initial version for ASR 50
24	R1	Initial version for ASR 49
23	R1	Initial version for ASR 48
22	R1	Initial version for ASR 47
21	R1	Initial version for ASR 46
20	R1	Initial version for ASR 45
19	R1	Initial version for ASR 44
18	R1	Initial version for ASR 43
17	R1	Initial version for ASR 42
16	R1	Initial version for ASR 41
15	R1	Initial version for ASR 40
14	R1	Initial version for ASR 39
13	R1	Initial version for ASR 38
12	R1	Initial version for ASR 37
11	R1	Initial version for ASR 36
10	R1	Initial version for ASR 35
9	R1	Initial version for ASR 34
8	R1	Initial version for ASR 33
7	R1	Initial version for ASR 32
6	R1	Initial version for ASR 31

5	R1	Initial version for ASR 30
4	R1	Initial version for ASR 29
3	R1	Initial version for ASR 28
2	R2	Minor changes to synch up with schema affecting the TQ form
2	R1	Initial version for ASR 27
1	R3	Final version of UOM-ASR Volume II for ASR 26
1	R2	Revisions to support synchronization with Volume III XML schema
1	R1	Base line version of UOM-ASR Volume II for ASR 26

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# 1 UOM Documentation

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The document, Unified Ordering Model Volume II – Analysis, (UOM-ASR Volume II) is part of a set of documents that provides an end-to-end structured systems engineering approach to perform the analysis related to unified ordering via electronic interfaces. This document provides the analysis of the detailed business and systems' requirements for an ordering model. It describes the information model and the behavioral model with the intent that service providers, customers, and their vendors understand how the data, business rules and systems rules work together with the behavior of the data and rules. Because of the level of complexities inherent in such an electronic ordering model, Unified Modeling Language (UML) tools by MyEclipse™ have been used to develop this volume. UOM-ASR Volume II utilizes UML for descriptive purposes and in some instances may not strictly adhere to existing UML specifications.

The intent of Unified Ordering Model (UOM) is to develop a complete set of system documentation using an end-to-end structured methodology. The scope of UOM encompasses business requirements, analysis, design, and implementation. Logically, these components are defined within the UOM in four volumes.

## **UOM-ASR Volume I - Business Requirements**

This document describes the business requirements. This volume includes a high-level overview of the three primary processes in ordering: pre-ordering, service request, and post-confirmation activities. It also includes more detailed information in the use cases and activity diagrams. Two appendices include the data dictionary and the functional data matrix. The UOM-ASR Volume I is focused on ordering for access services only. As other services are added in the future, additional Volume I documents may be developed. The OBF Ordering Solutions Committee/Access Service Ordering Subcommittee maintains the UOM-ASR Volume I document.

## **UOM-ASR Volume II - Analysis**

This analysis document provides the logical view of the business requirements stated in Volume I. The primary sections include the information model, sequence diagrams, and behavior model. Both the informational and behavioral models are described using the Unified Modeling Language (UML). UOM-ASR Volume II utilizes UML for descriptive purposes and in some instances may not strictly adhere to existing UML specifications. The UML provides the notation used within Volume II. Because of the level of complexities inherent in such an electronic ordering model, unified modeling language tools (MyEclipse™) have been used to develop this Volume II. Some additional requirements are included in Volume II in order to accommodate fundamental aspects of ordering services via electronic interexchange. Volume II is not specific to any particular technology or protocol. If additional Volume I documents are developed, this Volume II may need to be expanded to address additional requirements. The OBF Ordering Solutions Committee/Access Service Ordering Subcommittee maintains UOM-ASR Volume II.

## **UOM-ASR Volume III - Design**

The logical view of the proposed resolution (model), created in the Analysis Phase, is translated into the language appropriate for the selected implementation technology. The first technology selected is XML; therefore UOM-ASR Volume III includes appropriate XML schemas related to unified ordering. This document does not specify a particular protocol as it is assumed that the trading partners will determine the appropriate transport protocol. It may be necessary to repeat the Design Phase when more than one implementation technology is selected. The OBF Ordering Solutions Committee/Access Service Ordering Subcommittee maintains UOM-ASR Volume III.

## **UOM-ASR Volume IV - Implementation**

This document includes implementation specifications that must be addressed before the system specifications can be realized using the selected implementation technology. In addition, a sample Joint Implementation Agreement (JIA) may be included as an appendix for trading partners to use as a starting template. As with the *Design Phase*, the *Implementation Phase* may also have to be repeated in order to