

Oracle® Communications Service Controller

Protocol Implementation Conformance Statement

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Preface

This book serves as a Protocol Implementation Compliance Statement (PICS) for Oracle Communications Service Controller.

Audience

This guide is intended for system administrators, product integrators, and developers. It assumes knowledge of the following subjects:

- CAMEL Application Part (CAP), phases 1-4
- Intelligent Network Application Part (INAP) Capability Set 1 (CS-1)
- Wireless Intelligent Network (WIN)
- Advanced Intelligent Network (AIN)
- Short Message Peer to Peer Protocol (SMPP)
- Session Initiation Protocol (SIP)

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Service Controller PICS Overview

This book describes how Oracle Communications Service Controller (Service Controller) supports different protocols. Each chapter lists the supported operations for a specific protocol.

Service Controller Supported Protocols

Service Controller supports the protocols defined in the following standards:

CAMEL Phase 1

- ETSI TS 101 046 V5.7.0, CAMEL Application Part (CAP) Phase 1 (3GPP TS 09.78)

CAMEL Phase 2

- ETSI TS 101 285 V7.2.0, CAMEL Application Part (CAP) Phase 2, Stage 1 (3GPP TS 02.78)
- ETSI TS 101 441 V7.8.1, CAMEL Application Part (CAP) Phase 2, Stage 2 (3GPP TS 03.78)
- ETSI TS 101 046 V7.1.0, CAMEL Application Part (CAP) Phase 2, Stage 3 (3GPP TS 09.78)

CAMEL Phase 3

- ETSI TS 122 078 V4.5.0, CAMEL Application Part (CAP) Phase 3, Stage 1 (3GPP TS 22.078)
- ETSI TS 123 078 V4.11.0, CAMEL Application Part (CAP) Phase 3, Stage 2 (3GPP TS 23.078)
- ETSI TS 129 078 V4.8.0, CAMEL Application Part (CAP) Phase 3, Stage 3 (3GPP TS 29.078)

CAMEL Phase 4

- ETSI TS 122 078 V7.6.0, CAMEL Application Part (CAP) Phase 4, Stage 1 (3GPP 22.078)

- ETSI TS 123.078 V7.9.0, CAMEL Application Part (CAP) Phase 4, Stage 2
- ETSI TS 129.078 (3GPP TS 29.078) V6.5.0, CAMEL Application Part (CAP) Phase 4, Stage 3 (3GPP TS 23.078)
- ETSI TS 129.078 V7.5.0, CAMEL Application Part (CAP) Phase 4, Stage 3 (3GPP TS 29.078)

Intelligent Network Application Part (INAP) Capability Set 1 (CS-1)

- ITU-T Q.1218, Interface Recommendation for Intelligent Network CS-1
- ETSI ETS 300 374, Intelligent Network (IN); Intelligent Network Capability Set 1 (CS-1); Core Intelligent Network Application Protocol (INAP); Protocol specification

Advanced Intelligent Network (AIN)

- Bellcore, TR-NWT-1284, Advanced Intelligent Network (AIN) 0.1
- Bellcore, TR-NWT-1285, Advanced Intelligent Network (AIN) 0.1
- Telcordia GR-1298-CORE Advanced Intelligent Network (AIN) 0.2
- Telcordia GR-1299-CORE Advanced Intelligent Network (AIN) 0.2

Wireless Intelligent Network (WIN)

- TIA/EIA Wireless Intelligent Network (WIN) Phase 1, IS-771
- TIA/EIA Wireless Intelligent Network (WIN) Phase 2, IS-826

Short Message Peer to Peer Protocol (SMPP)

- Short Message Peer to Peer Protocol (SMPP) Specification v3.4, 12-Oct-1999 Issue 1.2

Session Initiation Protocol (SIP)

- ETSI TS 124 229 V8.0.0, Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP), Stage 3 (3GPP TS 24.229)
- IETF RFC 3325, Private Extensions to the Session Initiation Protocol (SIP) for Asserted Identity within Trusted Network
- IETF RFC 3455, Private Header (P-Header) Extensions to the Session Initiation Protocol (SIP) for the 3rd-Generation Partnership Project (3GPP)
- IETF RFC 3326, The Reason Header Field for the Session Initiation Protocol (SIP)
- IETF RFC 4240, Basic Network Media Services with SIP

CAP Compliance Protocol Implementation Conformance Statement

This chapter describes how Oracle Communications Service Controller supports operations and events of CAMEL Application Part (CAP).

CAP Phase 1

This section describes how Service Controller supports CAP phase 1 operations and events defined in *ETSI TS 101 046 V5.7.0, CAMEL Application Part (CAP) Phase 1*.

Operations

[Table 2–1](#) describes how Service Controller supports CAP phase 1 operations.

Table 2–1 CAP Phase 1 Operations

Operation	IM-SCF Support	IM-SSF Support
ActivityTest	Supported	Supported
Connect	Supported	Supported
Continue	Supported	Supported
EventReportBCSM	Supported	Supported
InitialDP	Supported	Supported
ReleaseCall	Supported	Supported
RequestReportBCSMEvent	Supported	Supported

Events

[Table 2–2](#) describes how Service Controller supports CAP phase 1 events.

Table 2–2 CAP Phase 1 BCSM Event Types

BCSM Event Type	IM-SCF Support	IM-SSF Support
collectedInfo	Supported	Supported
oAnswer	Supported	Supported
oDisconnect	Supported	Supported
termAttemptAuthorized	Supported	Supported
tAnswer	Supported	Supported

Table 2–2 (Cont.) CAP Phase 1 BCSM Event Types

BCSM Event Type	IM-SCF Support	IM-SSF Support
tDisconnect	Supported	Supported

CAP Phase 2

This section describes how Service Controller supports CAP phase 2 operations and events defined in *ETSI TS 101 046 V7.1.0, CAMEL Application Part (CAP) Phase 2*.

Operations

[Table 2–3](#) describes how Service Controller supports CAP phase 2 operations.

Table 2–3 CAP Phase 2 Operations

Operation	IM-SCF Support	IM-SSF Support
ActivityTest	Supported	Supported
ApplyCharging	Supported	Supported
ApplyChargingReport	Supported	Supported
AssistRequestInstructions	Not supported	Not supported
CallInformationReport	Supported	Supported
CallInformationRequest	Supported	Supported
Cancel	Supported	Supported
Connect	Supported	Supported
ConnectToResource	Supported	Supported
Continue	Supported	Supported
DisconnectForwardConnection	Supported	Supported
EstablishTemporaryConnection	Supported	Supported
EventReportBCSM	Supported	Supported
FurnishChargingInformation	Supported	Supported
InitialDP	Supported	Supported
PlayAnnouncement	Supported	Supported
PromptAndCollectUserInformation	Supported	Supported
ReleaseCall	Supported	Supported
RequestReportBCSMEvent	Supported	Supported
ResetTimer	Supported	Supported
SendChargingInformation	Supported	Not supported
SpecializedResourceReport	Supported	Supported

Events

[Table 2–4](#) describes how Service Controller supports CAP phase 2 events.

Table 2–4 CAP Phase 2 BCSM Event Types

BCSM Event Type	IM-SCF Support	IM-SSF Support
collectedInfo	Supported	Supported
routeSelectFailure	Supported	Supported
oCalledPartyBusy	Supported	Supported
oNoAnswer	Supported	Supported
oAnswer	Supported	Supported
oDisconnect	Supported	Supported
oAbandon	Supported	Supported
termAttemptAuthorized	Supported	Supported
tBusy	Supported	Supported
tNoAnswer	Supported	Supported
tAnswer	Supported	Supported
tDisconnect	Supported	Supported
tAbandon	Supported	Supported

CAP Phase 3

This section describes how Service Controller supports CAP Phase 3 operations and events defined in *ETSI TS 129 078 V4.8.0, CAMEL Application Part (CAP) Phase 3*.

Supported Operations for Circuit Switched Call Control

[Table 2–5](#) describes how Service Controller supports CAP phase 3 operations for circuit switched call control.

Table 2–5 CAP Phase 3 Operations for Circuit Switched Call Control

Operation	IM-SCF Support	IM-SSF Support
ActivityTest	Supported	Supported
ApplyCharging	Supported	Supported
ApplyChargingReport	Supported	Supported
AssistRequestInstructions	Not supported	Not supported
CallGap	Not supported	Not supported
CallInformationReport	Supported	Supported
CallInformationRequest	Supported	Supported
Cancel	Supported	Supported
CollectInformation	Not supported	Not supported
Connect	Supported	Supported
ConnectToResource	Supported	Supported
Continue	Supported	Supported
ContinueWithArgument	Supported	Supported
DisconnectForwardConnection	Supported	Supported

Table 2–5 (Cont.) CAP Phase 3 Operations for Circuit Switched Call Control

Operation	IM-SCF Support	IM-SSF Support
EntityReleased	Not supported	Not supported
EstablishTemporaryConnection	Supported	Supported
EventReportBCSM	Supported	Supported
FurnishChargingInformation	Supported	Supported
InitialDP	Supported	Supported
PlayAnnouncement	Supported	Supported
PlayTones	Supported	Supported
PromptAndCollectUserInformation	Supported	Supported
ReleaseCall	Supported	Supported
RequestReportBCSMEvent	Supported	Supported
ResetTimer	Supported	Supported
SendChargingInformation	Supported	Not supported
SpecializedResourceReport	Supported	Supported

Supported Operations for SMS Control

Table 2–6 describes how Service Controller supports CAP phase 3 operations for SMS control.

Table 2–6 CAP Phase 3 Operations for SMS Control

Operation	IM-SCF Support	IM-SSF Support
ConnectSMS	Supported	Supported
ContinueSMS	Supported	Supported
EventReportSMS	Supported	Supported
FurnishChargingInformationSMS	Supported	Supported
InitialDPSMS	Supported	Supported
ReleaseSMS	Supported	Supported
RequestReportSMSEvent	Supported	Supported
ResetTimerSMS	Supported	Supported

Supported Operations for GPRS Control

Table 2–7 describes how Service Controller supports CAP phase 3 operations for GPRS control.

Table 2–7 CAP Phase 3 Operations Supported for GPRS Control

Operation	IM-SCF Support	IM-SSF Support
ActivityTestGPRS	Not supported	Not supported
ApplyChargingGPRS	Not supported	Not supported
ApplyChargingReportGPRS	Not supported	Not supported
CancelGPRS	Not supported	Not supported

Table 2–7 (Cont.) CAP Phase 3 Operations Supported for GPRS Control

Operation	IM-SCF Support	IM-SSF Support
ConnectGPRS	Not supported	Not supported
ContinueGPRS	Not supported	Not supported
EntityReleasedGPRS	Not supported	Not supported
EventReportGPRS	Not supported	Not supported
FurnishChargingInformationGPRS	Not supported	Not supported
InitialDPGPRS	Not supported	Not supported
ReleaseGPRS	Not supported	Not supported
RequestReportGPRSEvent	Not supported	Not supported
ResetTimerGPRS	Not supported	Not supported
SendChargingInformationGPRS	Not supported	Not supported

BCSM Event Types

Table 2–8 describes how Service Controller supports CAP phase 3 BCSM event types.

Table 2–8 CAP Phase 3 BCSM Event Types

BCSM Event Type	IM-SCF Support	IM-SSF Support
collectedInfo	Supported	Supported
analyzedInformation	Supported	Supported
routeSelectFailure	Supported	Supported
oCalledPartyBusy	Supported	Supported
oNoAnswer	Supported	Supported
oAnswer	Supported	Supported
oDisconnect	Supported	Supported
oAbandon	Supported	Supported
termAttemptAuthorized	Supported	Supported
tBusy	Supported	Supported
tNoAnswer	Supported	Supported
tAnswer	Supported	Supported
tDisconnect	Supported	Supported
tAbandon	Supported	Supported

SMS Event Types

Table 2–9 describes how Service Controller supports CAP phase 3 SMS event types.

Table 2–9 CAP Phase 3 SMS Event Types

SMS Event Type	IM-SCF Support	IM-SSF Support
sms-CollectedInfo	Supported	Supported
o-smsFailure	Supported	Supported
o-smsSubmitted	Supported	Supported

CAP Phase 4

This section describes how Service Controller supports CAP phase 4 operations defined in *ETSI TS 129 078 V4.8.0, CAMEL Application Part (CAP) Phase 4*.

Supported Operations for Circuit Switched Call Control

Table 2–10 describes how Service Controller supports CAP phase 4 operations for circuit switched call control.

Table 2–10 CAP Phase 4 Operations for Circuit Switched Call Control

Operation	IM-SCF Support	IM-SSF Support
ActivityTest	Supported	Supported
ApplyCharging	Supported	Supported
ApplyChargingReport	Supported	Supported
AssistRequestInstructions	Not supported	Not supported
CallGap	Not supported	Not supported
CallInformationReport	Supported	Supported
CallInformationRequest	Supported	Supported
Cancel	Supported	Supported
CollectInformation	Not supported	Not supported
Connect	Supported	Supported
ConnectToResource	Supported	Supported
Continue	Supported	Supported
ContinueWithArgument	Supported	Supported
DisconnectForwardConnection	Supported	Supported
DisconnectForwardConnectionWithArgument	Supported	Supported
DisconnectLeg	Supported	Supported
EntityReleased	Not supported	Not supported
EstablishTemporaryConnection	Supported	Supported
EventReportBCSM	Supported	Supported
FurnishChargingInformation	Supported	Supported
InitialDP	Supported	Supported
InitiateCallAttempt	Supported	Supported
MoveLeg	Supported	Supported
PlayAnnouncement	Supported	Supported
PlayTones	Supported	Supported
PromptAndCollectUserInformation	Supported	Supported
ReleaseCall	Supported	Supported
RequestReportBCSMEvent	Supported	Supported
ResetTimer	Supported	Supported
SendChargingInformation	Supported	Not supported

Table 2–10 (Cont.) CAP Phase 4 Operations for Circuit Switched Call Control

Operation	IM-SCF Support	IM-SSF Support
SpecializedResourceReport	Supported	Supported
SplitLeg	Supported	Supported

Supported Operations for SMS Control

Table 2–11 describes how Service Controller supports CAP phase 4 operations for SMS control.

Table 2–11 CAP Phase 4 Operations for SMS Control

Operation	IM-SCF Support	IM-SSF Support
ConnectSMS	Supported	Supported
ContinueSMS	Supported	Supported
EventReportSMS	Supported	Supported
FurnishChargingInformationSMS	Supported	Supported
InitialDPSMS	Supported	Supported
ReleaseSMS	Supported	Supported
RequestReportSMSEvent	Supported	Supported
ResetTimerSMS	Supported	Supported

Supported Operations for GPRS Control

Table 2–12 describes how Service Controller supports CAP phase 4 operations for GPRS control.

Table 2–12 CAP Phase 4 Operations for GPRS Control

Operation	IM-SCF Support	IM-SSF Support
ActivityTestGPRS	Not supported	Not supported
ApplyChargingGPRS	Not supported	Not supported
ApplyChargingReportGPRS	Not supported	Not supported
CancelGPRS	Not supported	Not supported
ConnectGPRS	Not supported	Not supported
ContinueGPRS	Not supported	Not supported
EntityReleasedGPRS	Not supported	Not supported
EventReportGPRS	Not supported	Not supported
FurnishChargingInformationGPRS	Not supported	Not supported
InitialDPGPRS	Not supported	Not supported
ReleaseGPRS	Not supported	Not supported
RequestReportGPRSEvent	Not supported	Not supported
ResetTimerGPRS	Not supported	Not supported
SendChargingInformationGPRS	Not supported	Not supported

BCSM Event Types

Table 2–13 describes how Service Controller supports CAP phase 4 BCSM event types.

Table 2–13 CAP 4 BCSM Event Types

BCSM Event Type	IM-SCF Support	IM-SSF Support
collectedInfo	Supported	Supported
analyzedInformation	Supported	Supported
routeSelectFailure	Supported	Supported
oCalledPartyBusy	Supported	Supported
oNoAnswer	Supported	Supported
oAnswer	Supported	Supported
oMidCall	Supported	Supported
oDisconnect	Supported	Supported
oAbandon	Supported	Supported
termAttemptAuthorized	Supported	Supported
tBusy	Supported	Supported
tNoAnswer	Supported	Supported
tAnswer	Supported	Supported
tMidCall	Supported	Supported
tDisconnect	Supported	Supported
tAbandon	Supported	Supported
oTermSeized	Supported	Supported
callAccepted	Supported	Supported
oChangeOfPosition	Supported	Supported
tChangeOfPosition	Supported	Supported
oServiceChange	Supported	Supported
tServiceChange	Supported	Supported

SMS Event Types

Table 2–14 describes how Service Controller supports CAP phase 4 SMS event types.

Table 2–14 CAP Phase 4 SMS Event Types

SMS Event Type	IM-SCF Support	IM-SSF Support
sms-CollectedInfo	Supported	Supported
o-smsFailure	Supported	Supported
o-smsSubmission	Supported	Supported
sms-DeliveryRequested	Supported	Supported
t-smsFailure	Supported	Supported
t-smsDelivery	Supported	Supported

INAP CS-1 Compliance Protocol Implementation Conformance Statement

This chapter describes how Oracle Communications Service Controller supports operations and events of INAP CS-1 protocol defined in *ITU-T Q.1218, Interface Recommendation for Intelligent Network CS-1*.

Operations

Table 3–1 describes how Service Controller supports INAP CS-1 operations.

Table 3–1 INAP CS-1 Operations

Operation	IM-SCF Support	IM-SSF Support
ActivateServiceFiltering	Not supported	Not supported
ActivityTest	Supported	Not supported
ApplyCharging	Supported	Not supported
ApplyChargingReport	Supported	Not supported
AssistRequestInstructions	Not supported	Not supported
CallGap	Not supported	Not supported
CallInformationReport	Supported	Not supported
CallInformationRequest	Supported	Not supported
Cancel	Supported	Supported
CollectInformation	Not supported	Not supported
Connect	Supported	Supported
ConnectToResource	Supported	Supported
Continue	Supported	Supported
DisconnectForwardConnection	Supported	Supported
EstablishTemporaryConnection	Supported	Supported
EventNotificationCharging	Not supported	Not supported
EventReportBCSM	Supported	Supported
FurnishChargingInformation	Supported	Not supported
InitialDP	Supported	Supported
InitiateCallAttempt	Supported	Not supported

Table 3–1 (Cont.) INAP CS-1 Operations

Operation	IM-SCF Support	IM-SSF Support
PlayAnnouncement	Supported	Supported
PromptAndCollectUserInformation	Supported	Supported
ReleaseCall	Supported	Supported
RequestNotificationChargingEvent	Not supported	Not supported
RequestReportBCSMEvent	Supported	Supported
ResetTimer	Supported	Supported
SendChargingInformation	Supported	Not supported
ServiceFilteringResponse	Not supported	Not supported
SpecializedResourceReport	Supported	Supported

Events

Table 3–2 describes how Service Controller supports INAP CS-1 events.

Table 3–2 INAP CS-1 BCSM Event Types

BCSM Event Type	IM-SCF Support	IM-SSF Support
origAttemptAuthorized	Supported	Supported
collectedInfo	Supported	Supported
analyzedInformation	Supported	Supported
routeSelectFailure	Supported	Supported
oCalledPartyBusy	Supported	Supported
oNoAnswer	Supported	Supported
oAnswer	Supported	Supported
oMidCall	Supported	Supported
oDisconnect	Supported	Supported
oAbandon	Supported	Supported
termAttemptAuthorized	Supported	Supported
tCalledPartyBusy	Supported	Supported
tNoAnswer	Supported	Supported
tAnswer	Supported	Supported
tMidCall	Supported	Supported
tDisconnect	Supported	Supported
tAbandon	Supported	Supported

WIN Compliance Protocol Implementation Conformance Statement

This chapter describes how Oracle Communications Service Controller supports operations of phases 1 and 2 of WIN protocol.

WIN Phase 1 Operations

Table 4–1 describes how Service Controller supports WIN phase 1 operations defined in *TIA/EIA Wireless Intelligent Network (WIN) IS-771*.

Table 4–1 WIN Phase 1 Operations

Operation	IM-SCF Support	IM-SSF Support
AnalyzedInformation	Supported	Supported
AuthenticationDirective	Not supported	Not supported
AuthenticationDirectiveForward	Not supported	Not supported
AuthenticationFailureReport	Not supported	Not supported
AuthenticationRequest	Not supported	Not supported
AuthenticationStatusReport	Not supported	Not supported
BaseStationChallenge	Not supported	Not supported
BulkDeregistration	Not supported	Not supported
CallControlDirective	Not supported	Not supported
ConnectResource	Not supported	Not supported
ConnectionFailureReport	Not supported	Not supported
CountRequest	Not supported	Not supported
DisconnectResource	Not supported	Not supported
FacilitySelectedAndAvailable	Supported	Supported
FeatureRequest	Not supported	Not supported
FlashRequest	Not supported	Not supported
InformationDirective	Not supported	Not supported
InformationForward	Not supported	Not supported
InstructionRequest	Not supported	Not supported
InterSystemAnswer	Not supported	Not supported

Table 4-1 (Cont.) WIN Phase 1 Operations

Operation	IM-SCF Support	IM-SSF Support
InterSystemPage	Not supported	Not supported
InterSystemPage2	Not supported	Not supported
InterSystemSetup	Not supported	Not supported
LocationRequest	Not supported	Not supported
MSInactive	Not supported	Not supported
Modify	Not supported	Not supported
OriginationRequest	Supported	Supported
OAnswer	Not supported	Not supported
ODisconnect	Not supported	Not supported
QualificationDirective	Not supported	Not supported
QualificationRequest	Not supported	Not supported
RandomVariableRequest	Not supported	Not supported
RedirectionDirective	Not supported	Not supported
RedirectionRequest	Not supported	Not supported
RegistrationCancellation	Not supported	Not supported
RegistrationNotification	Not supported	Not supported
ResefTimer	Supported	Supported
RemoteUserInteractionDirective	Not supported	Not supported
RoutingRequest	Not supported	Not supported
SMSDeliveryBackward	Not supported	Not supported
SMSDeliveryForward	Not supported	Not supported
SMSDeliveryPointToPoint	Not supported	Not supported
SMSNotification	Not supported	Not supported
SMSRequest	Not supported	Not supported
Search	Not supported	Not supported
SeizeResource	Not supported	Not supported
SRFDirective	Not supported	Not supported
TAnswer	Not supported	Not supported
TBusy	Not supported	Not supported
TDisconnect	Not supported	Not supported
TNoAnswer	Not supported	Not supported
TransferToNumberRequest	Not supported	Not supported
UnreliableRoamerDataDirective	Not supported	Not supported
UnsolicitedResponse	Not supported	Not supported

WIN Phase 2 Operations

Table 4–2 describes how Service Controller supports WIN phase 2 operations defined in TIA/EIA Wireless Intelligent Network (WIN) IS-826.

Table 4–2 WIN Phase 2 Operations

Operation	IM-SCF Support	IM-SSF Support
AnalyzedInformation	Supported	
AuthenticationDirective	Not supported	
AuthenticationDirectiveForward	Not supported	
AuthenticationFailureReport	Not supported	
AuthenticationRequest	Not supported	
AuthenticationStatusReport	Not supported	
BaseStationChallenge	Not supported	
BulkDeregistration	Not supported	
CallControlDirective	Supported	
ConnectResource	Not supported	
ConnectionFailureReport	Not supported	
CountRequest	Not supported	
DisconnectResource	Not supported	
FacilitySelectedAndAvailable	Supported	
FeatureRequest	Not supported	
FlashRequest	Not supported	
InformationDirective	Not supported	
InformationForward	Not supported	
InstructionRequest	Not supported	
InterSystemAnswer	Not supported	
InterSystemPage	Not supported	
InterSystemPage2	Not supported	
InterSystemSetup	Not supported	
LocationRequest	Not supported	
MSInactive	Not supported	
Modify	Not supported	
OriginationRequest	Supported	
OAnswer	Supported	
ODisconnect	Supported	
QualificationDirective	Not supported	
QualificationRequest	Not supported	
RandomVariableRequest	Not supported	
RedirectionDirective	Not supported	
RedirectionRequest	Not supported	

Table 4–2 (Cont.) WIN Phase 2 Operations

Operation	IM-SCF Support	IM-SSF Support
RegistrationCancellation	Not supported	
RegistrationNotification	Not supported	
ResetTimer	Supported	
RemoteUserInteractionDirective	Not supported	
RoutingRequest	Not supported	
SMSDeliveryBackward	Not supported	
SMSDeliveryForward	Not supported	
SMSDeliveryPointToPoint	Not supported	
SMSNotification	Not supported	
SMSRequest	Not supported	
Search	Not supported	
SeizeResource	Not supported	
SRFDirective	Not supported	
TAnswer	Supported	
TBusy	Supported	
TDisconnect	Supported	
TNoAnswer	Supported	
TransferToNumberRequest	Not supported	
UnreliableRoamerDataDirective	Not supported	
UnsolicitedResponse	Not supported	

AIN Compliance Protocol Implementation Conformance Statement

This chapter describes how Oracle Communications Service Controller supports operations of Advanced Intelligence Network (AIN) protocol.

AIN 0.1

This section describes how Service Controller supports AIN 0.1 operations defined in *Bellcore, TR-NWT-1284, Advanced Intelligent Network (AIN) 0.1* and *Bellcore, TR-NWT-1285, Advanced Intelligent Network (AIN) 0.1*.

Switch Call-Related Operations

[Table 5–1](#) describes how Service Controller supports AIN 0.1 switch call-related operations.

Table 5–1 AIN 0.1 Switch Call-Related Operations

Message	IM-SCF Support	IM-SSF Support
Info_Analyzed	Supported	Supported
Info_Collected	Supported	Supported
Network_Busy	Supported	Not supported
Origination_Attempt	Supported	Supported
Resource_Clear	Supported	Supported
Termination_Attempt	Supported	Supported

SCP Call-Related Operations

[Table 5–2](#) describes how Service Controller supports AIN 0.1 SCP call-related operations.

Table 5–2 AIN 0.1 SCP Call-Related Operations

Message	IM-SCF Support	IM-SSF Support
Analyze_Route	Supported	Supported
Authorize_Termination	Supported	Supported
Cancel_Resource_Event	Supported	Not supported
Continue	Supported	Supported

Table 5–2 (Cont.) AIN 0.1 SCP Call-Related Operations

Message	IM-SCF Support	IM-SSF Support
Disconnect	Supported	Supported
Forward_Call	Supported	Supported
Send_To_Resource	Supported	Supported

Non-Call Related Operations

Table 5–3 describes how Service Controller supports AIN 0.1 non-call related operations.

Table 5–3 AIN 0.1 Non-Call Related Operations

Message	IM-SCF Support	IM-SSF Support
ACG	Not supported	Not supported
Monitor_For-Change	Not supported	Not supported
Monitor_Success	Not supported	Not supported
Send_Notification	Supported	Supported
Status_Reported	Not supported	Not supported
Termination_Notification	Supported	Supported
Update_Data	Not supported	Not supported
Update_Request	Not supported	Not supported

AIN 0.2

This section describes how Service Controller supports AIN 0.2 operations defined in *Telcordia GR-1298-CORE Advanced Intelligent Network (AIN) 0.2* and *Telcordia GR-1299-CORE Advanced Intelligent Network (AIN) 0.2*.

Switch Call-Related Operations

Table 5–4 describes how Service Controller supports AIN 0.2 switch call-related operations.

Table 5–4 AIN 0.2 Switch Call-Related Operations

Message	IM-SCF Support	IM-SSF Support
Info_Analyzed	Supported	Supported
Info_Collected	Supported	Supported
Network_Busy	Supported	Not supported
Origination_Attempt	Supported	Supported
Resource_Clear	Supported	Supported
Termination_Attempt	Supported	Supported

SCP Call-Related Operations

Table 5–5 describes how Service Controller supports AIN 0.2 SCP call-related operations.

Table 5–5 AIN 0.2 SCP Call-Related Operations

Message	IM-SCF Support	IM-SSF Support
Analyze_Route	Supported	Supported
Authorize_Termination	Supported	Supported
Cancel_Resource_Event	Supported	Not supported
Continue	Supported	Supported
Disconnect	Supported	Supported
Forward_Call	Supported	Supported
Send_To_Resource	Supported	Supported

Non-Call Related Operations

Table 5–6 describes how Service Controller supports AIN 0.2 non-call related operations.

Table 5–6 AIN 0.2 Non-Call Related Operations

Message	IM-SCF Support	IM-SSF Support
ACG	Not supported	Not supported
Monitor_For-Change	Not supported	Not supported
Monitor_Success	Not supported	Not supported
Send_Notification	Supported	Supported
Status_Reported	Not supported	Not supported
Termination_Notification	Supported	Supported
Update_Data	Not supported	Not supported
Update_Request	Not supported	Not supported

SMPP Compliance Protocol Implementation Conformance Statement

This chapter describes how Oracle Communications Service Controller supports operations of the Short Message Peer-to-Peer (SMPP) protocol v3.4 defined in *Short Message Peer to Peer Protocol Specification v3.4*.

SMPP Operations

Table 6–1 describes how Service Controller supports SMPP operations.

Table 6–1 SMPP Operations

Operation	Status
alert_notification	Not supported
bind_transmitter	Not supported
bind_transmitter_resp	Not supported
bind_receiver	Not supported
bind_receiver_resp	Not supported
bind_transceiver	Not supported
bind_transceiver_resp	Not supported
cancel_sm	Not supported
cancel_sm_resp	Not supported
data_sm	Not supported
data_sm_resp	Not supported
deliver_sm	Supported
deliver_sm_resp	Supported
enquire_link	Not supported
enquire_link_resp	Not supported
generic_nack	Not supported
outbind	Not supported
query_sm	Not supported
query_sm_resp	Not supported
replace_sm	Not supported

Table 6–1 (Cont.) SMPP Operations

Operation	Status
replace_sm_resp	Not supported
submit_sm	Supported
submit_sm_resp	Supported
submit_sm_multi	Not supported
submit_sm_multi_resp	Not supported
unbind	Not supported
unbind_resp	Not supported

SIP Compliance Protocol Implementation Conformance Statement

This chapter describes how Oracle Communications Service Controller supports requests and responses of the Session Initiation Protocol (SIP) defined in *SIP: Session Initiation Protocol, RFC 3261*.

SIP Requests

Table 7-1 describes how Service Controller supports SIP requests.

Table 7-1 SIP Requests

Request	Status
ACK	Supported
BYE	Supported
CANCEL	Supported
INFO	Supported
INVITE	Supported
MESSAGE	Supported
NOTIFY	Supported
OPTIONS	Supported
PRACK	Supported
PUBLISH	Not supported
REFER	Not supported
REGISTER	Not supported
SUBSCRIBE	Supported
UPDATE	Supported

SIP Responses

This section describes how Service Controller supports SIP responses.

Informational Responses

Table 7-2 describes how Service Controller supports SIP informational responses.

Table 7-2 SIP Informational Responses

Response	Status
100 Trying	Supported
180 Ringing	Supported
181 Call is Being Forwarded	Supported
182 Queued	Supported
183 Session in Progress	Supported

Successful Responses

Table 7-3 describes how Service Controller supports SIP successful responses.

Table 7-3 SIP Successful Responses

Response	Status
200 OK	Supported
202 Accepted	Supported
204 No Notification	Supported

Redirection Responses

Table 7-4 describes how Service Controller supports SIP redirection responses.

Table 7-4 SIP Redirection Responses

Response	Status
300 Multiple Choices	Supported
301 Moved Permanently	Supported
302 Moved Temporarily	Supported
305 Use Proxy	Supported
380 Alternative Service	Supported

Client Failure Responses

Table 7-5 describes how Service Controller supports SIP client failure responses.

Table 7-5 SIP Client Failure Responses

Response	Status
400 Bad Request	Supported
401 Unauthorized	Supported
402 Payment Required	Supported
403 Forbidden	Supported
404 Not Found	Supported
405 Method Not Allowed	Supported
406 Not Acceptable	Supported
407 Proxy Authentication Required	Supported

Table 7–5 (Cont.) SIP Client Failure Responses

Response	Status
408 Request Timeout	Supported
409 Conflict	Supported
410 Gone	Supported
412 Conditional Request Failed	Supported
413 Request Entity Too Large	Supported
414 Request-URI Too Long	Supported
415 Unsupported Media Type	Supported
416 Unsupported URI Scheme	Supported
417 Unknown Resource-Priority	Supported
420 Bad Extension	Supported
421 Extension Required	Supported
422 Session Interval Too Small	Supported
423 Interval Too Brief	Supported
424 Bad Location Information	Supported
428 Use Identity Header	Supported
429 Provide Referrer Identity	Supported
433 Anonymity Disallowed	Supported
436 Bad Identity-Info	Supported
437 Unsupported Certificate	Supported
438 Invalid Identity Header	Supported
480 Temporarily Unavailable	Supported
481 Call/Transaction Does Not Exist	Supported
482 Loop Detected	Supported
483 Too Many Hops	Supported
484 Address Incomplete	Supported
485 Ambiguous	Supported
486 Busy Here	Supported
487 Request Terminated	Supported
488 Not Acceptable Here	Supported
489 Bad Event	Supported
491 Request Pending	Supported
493 Undecipherable	Supported
494 Security Agreement Required	Supported

Server Failure Responses

Table 7–6 describes how Service Controller supports SIP server failure responses.

Table 7-6 SIP Server Failure Responses

Response	Status
500 Server Internal Error	Supported
501 Not Implemented	Supported
502 Bad Gateway	Supported
503 Service Unavailable	Supported
504 Server Time-out	Supported
505 Version Not Supported	Supported
513 Message Too Large	Supported
580 Precondition Failure	Supported

Global Failure Responses

[Table 7-7](#) describes how Service Controller supports SIP global failure responses.

Table 7-7 SIP Global Failure Responses

Response	Status
600 Busy Everywhere	Supported
603 Decline	Supported
604 Does Not Exist Anywhere	Supported
606 Not Acceptable	Supported