**RescueNet AmbulancePad**

**Specifications for Standard Billing Interface**

**November 2018**

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# About this Document

This document describes the standard interface that is used to integrate RescueNet AmbulancePad with a third-party billing system. The interface supports uni-directional communication between AmbulancePad and the billing system. Once the interface is functional, AmbulancePad will create data extract files (XML) based on the information that has been captured on the client.

It is possible that the standard interface may not meet the needs of your implementation. In that case, ZOLL will develop a custom interface. A custom interface requires detailed specifications. The specifications must be signed off by the customer and reviewed by ZOLL’s Custom Solutions Group. After the specifications are finalized, ZOLL will provide a quote to implement the interface.

# Hardware and Software Requirements

The standard billing interface is installed and runs on the AmbulancePad Master Server – no additional third-party hardware or software is required

# Description of the Integration

|  |  |
| --- | --- |
|  | The following graphic shows the communication between the AmbulancePad Server and the billing system.  The AmbulancePad Server initiates the communication and sends XML messages via HTTP (REST) to the Server of the billing system.  When a user makes a change on the client, the client updates the Server. After receipt, the Server sends the changes either immediately to the billing system based on an internal trigger (for example, administrative completion) or after a time period that can be set on the Server.  Authentication on the Web Server of the billing system is performed according to the operator's / billing system specifications. |

# File Format

The system uses the following format to exchange data between the AmbulancePad Server and the Server of the billing system.

Additional fields can be added individually if required, as long as they can already be entered in the AmbulancePad client.

|  |  |  |
| --- | --- | --- |
| **RecordInformation** |  |  |
| ID | Protocol UUID | string |
| PatientCareReportNumber | Protocol Number | string |
| IncidentNumber | Unique Incident Number | string |
| Created | Incident Date | date |
| **AgencyInformation** |  |  |
| EMSAgencyName | Name of the EMS organization | string |
| EMSAgencyNumber | ID of EMS organization | string |
| StationName | Station Name | string |
| EMSUnitCallSign | Vehicle Call Sign | string |
| VehicleNumber | Vehicle description / name | string |
| PrimaryRollOfTheUnit | Primary role of the unit (ALS, BLS, etc.) | string |
| **CallInformation** |  |  |
| DispatchKeyword | Dispatch Keyword | string |
| DispatchKeywordExportCode | Dispatch Keyword Export Code | string |
| UnitCanceled | Trip canceled? | boolean |
| UnitCancelReason | Reason why the trip has been cancelled | string |
| UnitCancelExportCode | Trip cancelled Export Code | string |
| **Times** |  |  |
| PSAPCall | CAD call time | dateTime |
| UnitNotified | Time unit notified | dateTime |
| UnitEnRoute | Time Unit En Route | dateTime |
| UnitArrivedOnScence | Time unit arrived on scence | dateTime |
| UnitLeftScene | Time unit left scene | dateTime |
| PatientArrivedAtDestination | Time patient arrived at destination | dateTime |
| UnitBackInService | Time when unit is back in service | dateTime |
| UnitBackAtHomeLocation | Time when unit arrived home location / station | dateTime |
| **Patient** |  |  |
| LastName | Last name | string |
| FirstName | First name | string |
| City | City | string |
| Zip | ZIP | string |
| Country | Country | string |
| County | County | string |
| StreetNr | Street Number | string |
| StreetAddress | Street | string |
| Gender | Gender | string |
| GenderExportCode | Gender Export Code | string |
| DateOfBirth | Date of birth | date |
| Nationality | Nationality | string |
| **Billing** |  |  |
| InsuranceCompanyID | ID of the insurance company | string |
| InsuranceGroupName | Name of the insurance company | string |
| InsuranceGroupExportCode | Insurance company Export Code | string |
| InsurancePolicyIDNumber | Patients insurance number | string |
| InsuranceCardValidTill | Insurance card expiration date | string |
| PaymentByOtherPerson | Payment will be done through other person / company | boolean |
| WorkSchoolAccident | Incident occurred at school or work place | boolean |
| OtherPayerInsuranceGroupName | Name of the payor insurance company | string |
| OtherPayerExportCode | Payer insurance company Export Code | string |
| OtherPayerCompanyName | Name of the payor company | string |
| OtherPayerLastName | Payer last name | string |
| OtherPayerFirstName | Payer first name | string |
| OtherPayerStreet | Payer street | string |
| OtherPayerStreetNumber | Payer street number | string |
| OtherPayerZip | Payer ZIP Code | string |
| OtherPayerCity | Payer City | string |
| OtherPayerCountry | Payer Country | string |
| OtherPayerComment | Payer additional comment | string |
| OdometerResult | Total miles driven | integer |
| OdometerSart | Odometer start count | integer |
| OdometerEnd | Odometer end count | integer |
| Comment | Additional billing information | string |
| WaitTimeMinutes | Wait time at destination | integer |
| NumberOfPatientsTransported | Number of patients transported | string |
| OnDutyWaitTime | Wait / recovery time until vehicle is ready for next duty | string |
| BillingType | Billing rate | string |
| BillingTypeCode | Billing rate Export Code | string |
| BillingTypeDetail | Billing rate details | string |
| BillingTypeDetailCode | Billing rate details Export Code | string |
| BillingVehicle | Role of the vehicle for this incident (ALS, BLS, etc.) | string |
| BillingVehicleCode | Export Code | string |
| **BillingExtras** | **Additional billing types** | **Liste** |
| Text | Description of the billing type | string |
| Code | Export Code | string |
| **Scene** | **Einsatzadresse** |  |
| IncidentFacilityCode | Name of the facility | string |
| IncidentFacilitySubCode | Name of the facility station or department | string |
| StreetAddress | Street | string |
| StreetAddressNumber | Street Number | string |
| City | City | string |
| Zip | ZIP code | string |
| Country | Country | string |
| **Disposition** | **Transportziel** |  |
| DestinationTransferredToID | Name of the facility | string |
| DestinationTransferredToSubID | Name of the facility station or department | string |
| StreetAddress | Street | string |
| StreetNumber | Street Number | string |
| City | City | string |
| Zip | ZIP code | string |
| Country | Country | string |
| NoTransportReason | Reason why patient was not transported | string |
| NoTransportReasonExportCode | Export Code | string |
| OtherBLSonSite | BLS crew from other EMS service on scene | string |
| OtherALSonSite | ALS crew from other EMS service on scene | string |
| **PersonnelInformations** |  | **Liste** |
| CrewMemberName | Crew member name | string |
| CrewMemberRole | Crew member role for this shift | string |
| CrewMemberID | Crew member ID | string |

# Sample File

The following sample illustrates the correct usage of the format described above:

<EMSDataSet>

<RecordInformation>

<ID>9ec69c9d-dc4e-4079-8b1f-40b3ee290e75</ID>

<PatientCareReportNumber>456</PatientCareReportNumber>

<Created>2018-11-09</Created>

<IncidentNumber>123</IncidentNumber>

</RecordInformation>

<AgencyInformation>

<EMSAgencyNumber>aebdf543-9b09-4adc-823e-a2de0282ba51</EMSAgencyNumber>

<EMSAgencyName>ZOLL</EMSAgencyName>

<VehicleNumber>Test vehicle</VehicleNumber>

<StationName>ZOLL Station A</StationName>

<EMSUnitCallSign>01-NEF-01</EMSUnitCallSign>

<PrimaryRollOfTheUnit>NEF</PrimaryRollOfTheUnit>

</AgencyInformation>

<CallInformation>

<DispatchKeyword>NA1</DispatchKeyword>

<UnitCanceled>false</UnitCanceled>

</CallInformation>

<Times>

<PSAPCall>2018-11-09T15:00:00+01:00</PSAPCall>

<UnitNotified>2018-11-09T15:01:00+01:00</UnitNotified>

<UnitEnRoute>2018-11-09T15:02:00+01:00</UnitEnRoute>

<UnitArrivedOnScence>2018-11-09T15:03:00+01:00</UnitArrivedOnScence>

<UnitLeftScene>2018-11-09T15:04:00+01:00</UnitLeftScene>

<PatientArrivedAtDestination>2018-11-09T15:05:00+01:00</PatientArrivedAtDestination>

<UnitBackInService>2018-11-09T15:07:00+01:00</UnitBackInService>

<UnitBackAtHomeLocation>2018-11-09T15:06:00+01:00</UnitBackAtHomeLocation>

</Times>

<Patient>

<LastName>Mustermann</LastName>

<FirstName>Max</FirstName>

<StreetAddress>Am Bahnhof</StreetAddress>

<City>Berlin</City>

<Zip>10243</Zip>

<Country>Deutschland</Country>

<CountryCode>DE</CountryCode>

<County>Berlin</County>

<StreetNr>33</StreetNr>

<Gender>Männlich</Gender>

<GenderExportCode>02</GenderExportCode>

<DateOfBirth>1971-03-22</DateOfBirth>

<Nationality>Bahamas</Nationality>

</Patient>

<Billing>

<InsuranceCompanyID>3232323</InsuranceCompanyID>

<InsuranceGroupName>AOK RHEINLAND UND HAMBURG</InsuranceGroupName>

<InsurancePolicyIDNumber>3213132132</InsurancePolicyIDNumber>

<PaymentByOtherPerson>true</PaymentByOtherPerson>

<WorkSchoolAccident>false</WorkSchoolAccident>

<OtherPayerCompanyName>Uni Klinik</OtherPayerCompanyName>

<OtherPayerStreet>Johannisstraße</OtherPayerStreet>

<OtherPayerStreetNumber>70</OtherPayerStreetNumber>

<OtherPayerZip>41749</OtherPayerZip>

<OtherPayerCity>Berlin</OtherPayerCity>

<OtherPayerCountry>Deutschland</OtherPayerCountry>

<OtherPayerCountryCode>DE</OtherPayerCountryCode>

<OtherPayerComment>Rechnungs Kommentar</OtherPayerComment>

<OdometerResult>45</OdometerResult>

<NumberOfPatientsTransported>1</NumberOfPatientsTransported>

<BillingType>Other Illness</BillingType>

<BillingTypeCode>01</BillingTypeCode>

<BillingVehicle>RTW</BillingVehicle>

<BillingVehicleCode>1</BillingVehicleCode>

</Billing>

<Scene>

<StreetAddress>Bahnhofstrasse</StreetAddress>

<City>Berlin</City>

<Zip>10119</Zip>

<StreetAddressNumber>11</StreetAddressNumber>

</Scene>

<Disposition>

<DestinationTransferredToID>Klinikum ZOLL</DestinationTransferredToID>

<DestinationTransferredToExportCode>1</DestinationTransferredToExportCode>

<StreetAddress> Emil-Hoffmann-Strasse</StreetAddress>

<StreetNumber>7</StreetNumber>

<City>Köln</City>

<Zip>50996</Zip>

</Disposition>

<PersonnelInformations>

<PersonnelInformation>

<CrewMemberID>bf87373d-ba9a-4318-851f-4fa6bd0b2303</CrewMemberID>

<CrewMemberName>Dr. ZOLL</CrewMemberName>

<CrewMemberRole>Doctor</CrewMemberRole>

</PersonnelInformation>

<PersonnelInformation>

<CrewMemberID>3161334d-2ca9-407f-aef6-df48076c059f</CrewMemberID>

<CrewMemberName>Heinz</CrewMemberName>

<CrewMemberRole>Driver</CrewMemberRole>

</PersonnelInformation>

</PersonnelInformations>

</EMSDataSet>