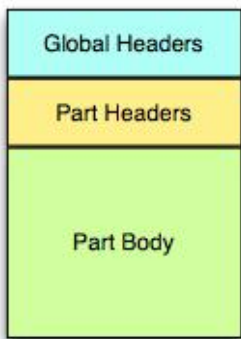


EbrMessageFormat

All [EbrMessages](#) use the [MimeFormat](#). The [MimeFormat](#) outlines well-established guidelines on how to package mixed data payloads (plain text, images, binary data, etc.) for network transmission.

An [EbrMessage](#) may consist of one or more [EbrMessageParts](#), with each [EbrMessagePart](#) possibly being of different content type. [EbrMessages](#) legally extend the [MimeFormat](#) by adding application specific [EbrMessageHeaders](#) that provide meta-information about the message, enabling [EbrNodes](#) to rapidly route the [EbrMessages](#) to their correct destination without inspecting the payload content.

A single-part [EbrMessage](#) can be visualised as:



Example Message

Example single-part [EbrMessage](#) with full [MimeHeaders](#).

```

Message-ID: <15813867.1016795026046.JavaMail.mwood@eh1>
Mime-Version: 1.0
Content-Type: multipart/mixed; boundary="----=_Part_0_5737707.1016795025947"
X-Ebr-Message-ID: MY_UNIQUE_ID
X-Ebr-Part-Count: 1
X-Ebr-Total-Cost-Euro: 200
X-Ebr-Version: 2.00
X-Ebr-Time-Stamp: 2002-07-23 16:38:15
X-Ebr-Routing: standard
X-Ebr-Mode: 3

-----=_Part_0_5737707.1016795025947
Content-Type: application/octet-stream; name=CompanyReportRequest.xml
Content-Transfer-Encoding: 7bit
Content-Disposition: attachment; filename=CompanyReportRequest.xml
X-Ebr-Source: dev_ndc
X-Ebr-Destination: dev_ngc
X-Ebr-User-ID: orc/1234
X-Ebr-Local-ID: orc/111ABC
X-Ebr-Service: CompanyReport
X-Ebr-Service-Status: 0
X-Ebr-Core-Status: 0
X-Ebr-Part-ID: MY_UNIQUE_ID/0
X-Ebr-Part-Number: 0
X-Ebr-Part-Cost-Euro: 20
  
```

```

X-Ebr-Session-ID: 20
X-Ebr-Log-Key: 0
X-Ebr-Delivery-Method: inline
X-Ebr-Delivery-Info:

<?xml version="1.0" encoding="UTF-8"?>
<!--Sample XML file generated by XML Spy v4.2 U (http://www.xmlspy.com)-->
<CompanyReportRequest xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="Z:\EBR\Orchid\Schemas\Message Based
\CompanyReportRequest.xsd">
<companyCode>00002065</companyCode>
<chamberOfCommerce>Wales</chamberOfCommerce>
</CompanyReportRequest>

-----=_Part_0_5737707.1016795025947--

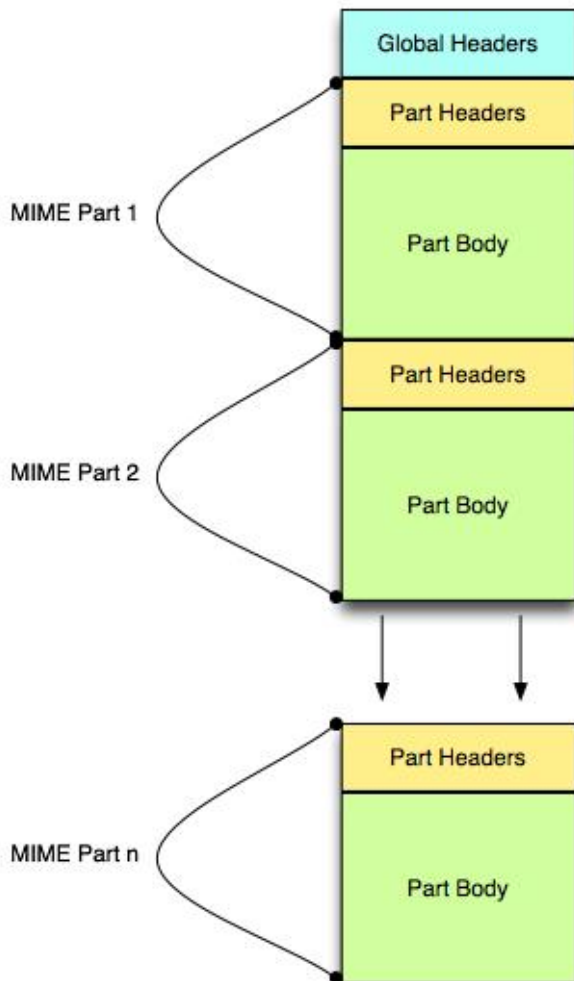
```

(Always refer to the [EbrMessageHeaderTable](#) for the latest set of [EbrMessageHeaders](#). Examples may reference older [EbrProtocol](#) versions)

The "-----=_Part_0_5737707.1016795025947" lines designate the boundary between parts. This message consists of a single part that carries an XML payload request for the "CompanyReport" service.

Multipart Message

An [EbrMessage](#) may contain more than one [EbrMessagePart](#), e.g.



Example Multi Part Ebr Message Request

The following listing shows a [MultiPartEbrMessage](#) consisting of two requests, a CompanySearch request to Sweden (PRV) for the company "IBM" and a similar request to Belgium (Euro DB) for "Microsoft".

```

Message-ID: <776128.1050068433655.JavaMail.ebradmin@eh2>
Mime-Version: 1.0
Content-Type: multipart/mixed;
boundary="-----=_Part_936_11128290.1050068433654"
X-Ebr-Message-ID: 2003-04-11 14:40:33.0.6470314347600303
X-Ebr-Time-Stamp: 2003-04-11 14:40:33
X-Ebr-Part-Count: 2
X-Ebr-Version: 2.00
X-Ebr-Mode: 3
X-Ebr-Routing: standard
X-Ebr-Total-Cost-Euro:

-----=_Part_936_11128290.1050068433654
Content-Type: text/xml; charset="utf-8"
Content-Transfer-Encoding: 7bit
X-Ebr-Service: EBR_CompanySearch_1
X-Ebr-Source: GBR_ND_orchid
X-Ebr-Destination: SWE_NG_PRV
X-Ebr-User-ID:
X-Ebr-Local-ID: GBR_LD_Orchid
X-Ebr-Service-Status: 0
X-Ebr-Core-Status: 0
X-Ebr-Part-ID: 2003-04-11 14:40:33.0.6470314347600303/1
X-Ebr-Part-Number: 1
X-Ebr-Part-Cost-Euro: 0
X-Ebr-Session-ID:
X-Ebr-Log-Key: ibm
X-Ebr-Delivery-Method:
X-Ebr-Delivery-Info:

<?xml version="1.0" encoding="UTF-8"?>
<CompanySearchRequest xmlns="http://ebr.orctel.com/ebr/xml/CompanySearchRequest">
<EBRHeader />
<GeneralInfo>
<CompanyName>ibm</CompanyName>
</GeneralInfo>
</CompanySearchRequest>

-----=_Part_936_11128290.1050068433654
Content-Type: text/xml; charset="utf-8"
Content-Transfer-Encoding: 7bit
X-Ebr-Service: EBR_CompanySearch_1
X-Ebr-Source: GBR_ND_orchid
X-Ebr-Destination: BEL_NG_edbfr
X-Ebr-User-ID:
X-Ebr-Local-ID: GBR_LD_Orchid
X-Ebr-Service-Status: 0
X-Ebr-Core-Status: 0
X-Ebr-Part-ID: 2003-04-11 14:40:33.0.6470314347600303/2
X-Ebr-Part-Number: 2
X-Ebr-Part-Cost-Euro: 0
X-Ebr-Session-ID:
X-Ebr-Log-Key: microsoft

```

```

X-Ebr-Delivery-Method:
X-Ebr-Delivery-Info:

<?xml version="1.0" encoding="UTF-8"?>
<CompanySearchRequest xmlns="http://ebr.orctel.com/ebr/xml/CompanySearchRequest">
<EBRHeader />
<GeneralInfo>
<CompanyName>microsoft</CompanyName>
</GeneralInfo>
</CompanySearchRequest>

-----=_Part_936_11128290.1050068433654--

```

(Always refer to the [EbrMessageHeaderTable](#) for the latest set of [EbrMessageHeaders](#). Examples may reference older [EbrProtocol](#) versions)

See also: [ExampleMultiPartEbrMessageReply](#)

Example Multi Part Ebr Message Reply

The following listing gives the result of the previous [ExampleMultiPartEbrMessageRequest](#), it is a [MultiPartEbrMessage](#) reply that contains the CompanySearch results from the two countries (the list results are snipped at one entry for brevity).

```

Message-ID: <8897128.1052389532717.JavaMail.orcldc@eh2>
Mime-Version: 1.0
Content-Type: multipart/mixed;
boundary="-----=_Part_22_8442367.1052389532696"
X-Ebr-Message-ID: 2003-04-11 14:40:33.0.6470314347600303
X-Ebr-Time-Stamp: 2003-04-11 14:40:33
X-Ebr-Part-Count: 2
X-Ebr-Version: 2.00
X-Ebr-Mode: 3
X-Ebr-Routing: standard
X-Ebr-Total-Cost-Euro:

-----=_Part_22_8442367.1052389532696
Content-Type: text/xml; charset="utf-8"
Content-Transfer-Encoding: 7bit
X-Ebr-Service: EBR_CompanySearch_1
X-Ebr-Source: GBR_ND_orchid
X-Ebr-Destination: SWE_NG_PRV
X-Ebr-User-ID:
X-Ebr-Local-ID: GBR_LD_Orchid
X-Ebr-Service-Status: 0
X-Ebr-Core-Status: 0
X-Ebr-Part-ID: 2003-04-11 14:40:33.0.6470314347600303/0
X-Ebr-Part-Number: 0
X-Ebr-Part-Cost-Euro: 1.23
X-Ebr-Session-ID:
X-Ebr-Log-Key: ibm
X-Ebr-Delivery-Method:
X-Ebr-Delivery-Info:

<?xml version="1.0" encoding="UTF-8"?>
<CompanySearchReply xmlns="http://ebr.orctel.com/ebr/xml/CompanySearchReply">
<EBRHeader>

```

```

<DataInfo ItemsMatched="9" ItemsReturned="9" />
</EBRHeader>
<CompanyList>
<CompanyEntry>
<GeneralInfo>
<ID type="company">
<Code>5560266883</Code>
<CountryTD Owner="EBR" Version="1" ID="default" Table="Country" Code="SWE" />
<RegistrationAuthorityTD Owner="SWE_NG_PRV" Version="1" ID="default"
Table="RegistrationAuthority" Code="PRV" />
</ID>
<CompanyName>IBM Svenska Aktiebolag</CompanyName>
</GeneralInfo>
<RegistrationInfo>
<RegistrationAuthorityTD Owner="SWE_NG_PRV" Version="1" ID="default"
Table="RegistrationAuthority" Code="PRV" />
</RegistrationInfo>
<StatutoryInfo>
<LegalFormTD Owner="SWE_NG_PRV" Version="1" ID="default" Table="LegalForm"
Code="AB" />
<StatusGroupTD Owner="EBR" Version="1" ID="default" Table="StatusGroup" Code="AC" />
</StatutoryInfo>
<ContactInfo>
<Address>
<AddressTypeTD Owner="EBR" Version="1" ID="default" Table="AddressType" Code="LOC" />
<AddressLine Order="1" Value="STOCKHOLM">
<AddressLineTD Owner="EBR" Version="1" ID="default" Table="AddressLine" Code="TWN" />
</AddressLine>
</Address>
</ContactInfo>
</CompanyEntry>
</CompanyList>
</CompanySearchReply>

```

```

-----=_Part_22_8442367.1052389532696
Content-Type: text/xml; charset="utf-8"
Content-Transfer-Encoding: 7bit
X-Ebr-Service: EBR_CompanySearch_1
X-Ebr-Source: GBR_ND_orchid
X-Ebr-Destination: BEL_NG_edbfr
X-Ebr-User-ID:
X-Ebr-Local-ID: GBR_LD_Orchid
X-Ebr-Service-Status: 0
X-Ebr-Core-Status: 0
X-Ebr-Part-ID: 2003-04-11 14:40:33.0.6470314347600303/0
X-Ebr-Part-Number: 0
X-Ebr-Part-Cost-Euro: 0
X-Ebr-Session-ID:
X-Ebr-Log-Key: Company Search reply for name=microsoft&
X-Ebr-Delivery-Method: Inline
X-Ebr-Delivery-Info:

```

```

<?xml version="1.0" encoding="UTF-8"?>
<CompanySearchReply xmlns="http://ebr.orctel.com/ebr/xml/CompanySearchReply"
Source="Euro DB" Official="true">
<EBRHeader>
<DataInfo ItemsReturned="6"/>
</EBRHeader>
<CompanyList>
<CompanyEntry>
<GeneralInfo>

```

```

<ID type="company">
<Code>429391680</Code>
</ID>
<CompanyName>ALINEA PARTNERS</CompanyName>
</GeneralInfo>
<StatutoryInfo>
<StatusGroupTD Owner="EBR" Version="1" ID="default" Table="StatusGroup" Code="LG"/>
</StatutoryInfo>
<ContactInfo>
<Address>
<AddressTypeTD Owner="EBR" Version="1" ID="default" Table="AddressType" Code="LOC"/>
<AddressLine Order="3" Value="Avenue Wellington">
<AddressLineTD Owner="EBR" Version="1" ID="default" Table="AddressLine" Code="STR"/>
</AddressLine>
<AddressLine Order="4" Value="136">
<AddressLineTD Owner="EBR" Version="1" ID="default" Table="AddressLine" Code="NBR"/>
</AddressLine>
<AddressLine Order="5" Value="1180">
<AddressLineTD Owner="EBR" Version="1" ID="default" Table="AddressLine" Code="CPT"/>
</AddressLine>
<AddressLine Order="6" Value="BRUXELLES">
<AddressLineTD Owner="EBR" Version="1" ID="default" Table="AddressLine" Code="TWN"/>
</AddressLine>
</Address>
</ContactInfo>
</CompanyEntry>
</CompanyList>
</CompanySearchReply>

-----=_Part_22_8442367.1052389532696--

```

(Always refer to the [EbrMessageHeaderTable](#) for the latest set of [EbrMessageHeaders](#). Examples may reference older [EbrProtocol](#) versions)

See also: [MimeFormat](#), [EbrMessageFormat](#), [EbrMessageGlobalHeader](#), [EbrMessagePartHeaders](#)

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[MartinWood](#)

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