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INTERNATIONAL TRANSMISSION SYSTEMS,  
TELEPHONE CIRCUITS, TELEGRAPHY, FACSIMILE  
AND LEASED CIRCUITS

Telecommunications management network

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## **CORBA generic network and network element level information model**

ITU-T Recommendation M.3120

(Formerly CCITT Recommendation)

## ITU-T M-SERIES RECOMMENDATIONS

### TMN AND NETWORK MAINTENANCE: INTERNATIONAL TRANSMISSION SYSTEMS, TELEPHONE CIRCUITS, TELEGRAPHY, FACSIMILE AND LEASED CIRCUITS

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## CORBA generic network and network element level information model

### Summary

This Recommendation defines a generic network information model to be used in telecommunications network management based on CORBA. It defines in Interface Definition Language (IDL) a set of generic interfaces and constants. The intent of this Recommendation is to define a generic CORBA/IDL model similar to that defined in ITU-T X.721 and M.3100 using CMISE. These generic IDL interfaces could be extended by various industries for managing specific network technologies, such as ATM and SONET/SDH.

This Recommendation includes an electronic attachment containing IDL descriptions.

### Source

ITU-T Recommendation M.3120 was revised by ITU-T Study Group 4 (2001-2004) and approved under the WTSA Resolution 1 procedure on 7 October 2001.

## FOREWORD

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The approval of ITU-T Recommendations is covered by the procedure laid down in WTSA Resolution 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

## NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

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**Table of CORBA Interfaces**

| <b>Fine-Grained Interface</b>  | <b>Clause</b>  | <b>Facade Interface</b>          | <b>Clause</b>  |
|--------------------------------|----------------|----------------------------------|----------------|
| AbstractLink                   | 6.5.1          | AbstractLink_F                   | 6.6.1          |
| AbstractLinkEnd                | 6.5.2          | AbstractLinkEnd_F                | 6.6.2          |
| AccessGroup                    | 6.5.3          | AccessGroup_F                    | 6.6.3          |
| AlarmSeverityAssignmentProfile | 6.5.4          | AlarmSeverityAssignmentProfile_F | 6.6.4          |
| ArcIntervalProfile             | 6.5.5          | ArcIntervalProfile_F             | 6.6.5          |
| BasicLayerND                   | 6.5.15.1.1     | BasicLayerND_F                   | 6.6.15.1.1     |
| BasicSubnetwork                | 6.5.19.1       | BasicSubnetwork_F                | 6.6.19.1       |
| CircuitEndPointSubgroup        | 6.5.6          | CircuitEndPointSubgroup_F        | 6.6.6          |
| CircuitPack                    | 6.5.8.1        | CircuitPack_F                    | 6.6.8.1        |
| CTPAbstract                    | 6.5.20.1       | CTPAbstract_F                    | 6.6.20.1       |
| CTPBid                         | 6.5.20.1.2.1   | CTPBid_F                         | 6.6.20.1.2.1   |
| CTPSink                        | 6.5.20.1.1     | CTPSink_F                        | 6.6.20.1.1     |
| CTPSource                      | 6.5.20.1.2     | CTPSource_F                      | 6.6.20.1.2     |
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| CrossConnection                | 6.5.7          | CrossConnection_F                | 6.6.7          |
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| EquipmentHolder                | 6.5.8.2        | EquipmentHolder_F                | 6.6.8.2        |
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| GTP                            | 6.5.11         | GTP_F                            | 6.6.11         |
| LayerND                        | 6.5.15.1       | LayerND_F                        | 6.6.15.1       |
| LinkConnection                 | 6.5.16.1       | LinkConnection_F                 | 6.6.16.1       |
| LogicalLink                    | 6.5.1.1        | LogicalLink_F                    | 6.6.1.1        |
| LogicalLinkEnd                 | 6.5.2.1        | LogicalLinkEnd_F                 | 6.6.2.1        |
| ManagedElement                 | 6.5.12         | ManagedElement_F                 | 6.6.12         |
| ManagedElementComplex          | 6.5.13         | ManagedElementComplex_F          | 6.6.13         |
| MPCrossConnection              | 6.5.14         | MPCrossConnection_F              | 6.6.14         |
| Network                        | 6.5.15         | Network_F                        | 6.6.15         |
| NetworkCTPAbstract             | 6.5.20.3.1     | NetworkCTPAbstract_F             | 6.6.20.3.1     |
| NetworkCTPBid                  | 6.5.20.3.1.2.1 | NetworkCTPBid_F                  | 6.6.20.3.1.2.1 |
| NetworkCTPSink                 | 6.5.20.3.1.1   | NetworkCTPSink_F                 | 6.6.20.3.1.1   |
| NetworkCTPSource               | 6.5.20.3.1.2   | NetworkCTPSource_F               | 6.6.20.3.1.2   |
| NetworkTP                      | 6.5.20.3       | NetworkTP_F                      | 6.6.20.3       |
| NetworkTTPAbstract             | 6.5.20.3.2     | NetworkTTPAbstract_F             | 6.6.20.3.2     |
| NetworkTTPBid                  | 6.5.20.3.2.2.1 | NetworkTTPBid_F                  | 6.6.20.3.2.2.1 |
| NetworkTTPSink                 | 6.5.20.3.2.1   | NetworkTTPSink_F                 | 6.6.20.3.2.1   |
| NetworkTTPSource               | 6.5.20.3.2.2   | NetworkTTPSource_F               | 6.6.20.3.2.2   |
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**Table of CORBA Interfaces**

| <b>Fine-Grained Interface</b> | <b>Clause</b> | <b>Facade Interface</b> | <b>Clause</b> |
|-------------------------------|---------------|-------------------------|---------------|
| SNC                           | 6.5.16.2      | SNC_F                   | 6.6.16.2      |
| TP                            | 6.5.20        | TP_F                    | 6.6.20        |
| TopLink                       | 6.5.1.2       | TopLink_F               | 6.6.1.2       |
| TopLinkEnd                    | 6.5.2.2       | TopLinkEnd_F            | 6.6.2.2       |
| TPPool                        | 6.5.21        | TPPool_F                | 6.6.21        |
| Trail                         | 6.5.16.3      | Trail_F                 | 6.6.16.3      |
| Trail95                       | 6.5.17        | Trail95_F               | 6.6.17        |
| TTPAbstract                   | 6.5.20.2      | TTPAbstract_F           | 6.6.20.2      |
| TTPBid                        | 6.5.20.2.2.1  | TTPBid_F                | 6.6.20.2.2.1  |
| TTPSink                       | 6.5.20.2.1    | TTPSink_F               | 6.6.20.2.1    |
| TTPSource                     | 6.5.20.2.2    | TTPSource_F             | 6.6.20.2.2    |