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THIRD GENERATION PARTNERSHIP PROJECT (3GPP) PARTNERSHIP PROJECT DESCRIPTION

During the meeting held in Copenhagen, 2 - 4 December 1998 ARIB, ETSI, T1, TTA and TTC agreed this Partnership Project Description.

Preamble

Standards organizations and other related bodies have agreed to cooperate for the production of a complete set of globally applicable Technical Specifications for a 3rd Generation Mobile System based on the evolved GSM core networks and the radio access technologies supported by 3GPP partners (i.e., UTRA both FDD and TDD modes).

The Project is entitled the "Third Generation Partnership Project" and may be known by the acronym "3GPP".

3GPP has been established for the preparation and maintenance of the above mentioned Technical Specifications, and is not a legal entity.

3GPP Overview



Definition of the Third Generation Partnership Project

3GPP will provide globally applicable Technical Specifications for a 3rd Generation Mobile System based on the evolved GSM core network, and the Universal Terrestrial Radio Access (UTRA), to be transposed by relevant standardization bodies (Organizational Partners) into appropriate deliverables (e.g., standards).

Scope and objectives (1)

The Technical Specifications will be developed in view of global roaming and circulation of terminals.

The 3rd Generation Mobile System and its capabilities will be developed in a phased approach. Initially, 3GPP will elaborate, approve and maintain the necessary set of Technical Specifications for the first phase of a 3rd Generation Mobile System including:

- UTRAN (including UTRA; W-CDMA in Frequency Division Duplex (FDD) mode and TD-CDMA in Time Division Duplex (TDD) mode)
- 3GPP Core Network (Third Generation networking capabilities evolved from GSM. These capabilities include mobility management and global roaming.)
- Terminals for access to the above (including specifications for a UIM)
- System and service aspects

Scope and objectives (2)

The set of global specifications for the first phase of the 3GPP core network and the specifications for the GSM core network should be common to the largest extent possible and should not be needlessly different.

The results of the 3GPP work will form the basis of member contributions to the ITU in accordance with existing procedures.

3GPP will take account of emerging ITU recommendations on interworking between IMT-2000 family members.

In the framework of agreed relationships, 3GPP will elaborate Technical Specifications that will form the basis of standards, or parts of standards, of the Organizational Partners.

Characteristics of 3GPP (1)

3GPP is characterized by the following attributes:

- Minimum production time for Technical Specifications from conception to approval
- Fast, electronic based approval process
- Maximum use of modern (electronic) working methods
- Minimum number of hierarchical levels with decision making taking place at the lowest appropriate levels

Characteristics of 3GPP (2)

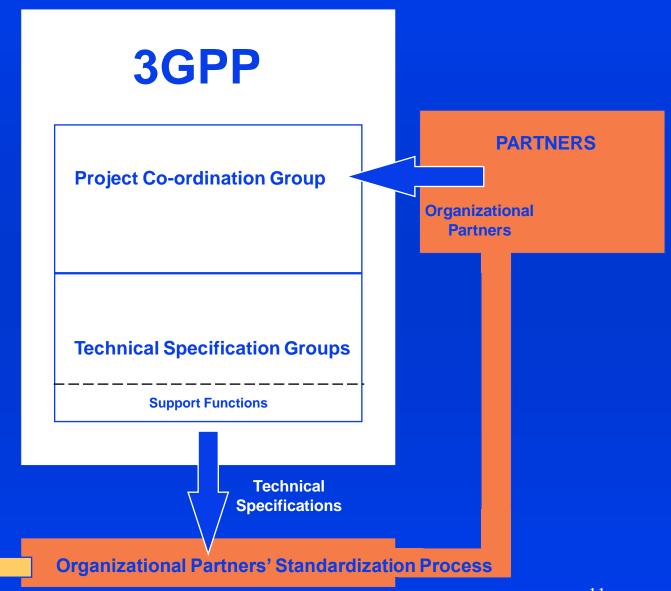
- A Project Co-ordination function and a Technical Specification function
- Task oriented, ensuring that on completion of the tasks the future of the project is reevaluated
- Cost effective use of financial/human resources provided by Partner Organizations (if required)

Partnership and Membership

3GPP comprises of:

- Partners:
 - Organizational Partners
 - 3GPP is open to all standards organizations irrespective of the geographical location.
 - Market Representation Partners
- Individual Members

Organizational Partners (1)



Organizational Partners (2)

An Organizational Partner is:

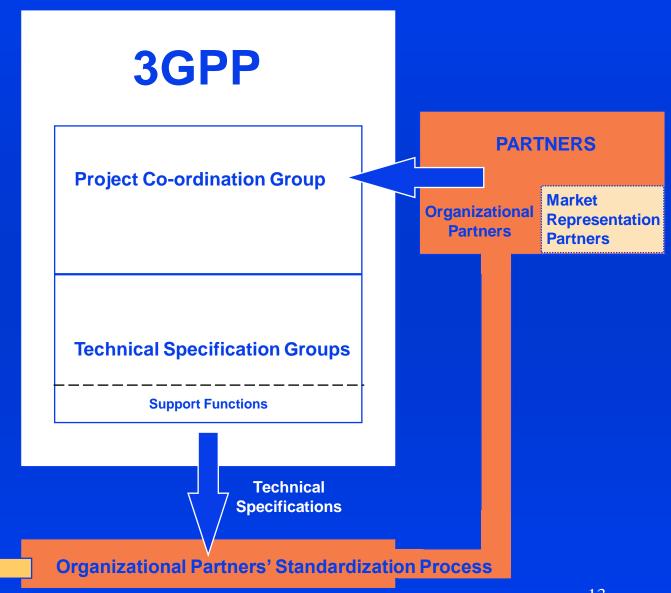
An open standards organization with a national, regional or other officially recognized status (in their country or region)

that:

- has the capability and authority to define, publish and set standards nationally or regionally and
- has signed (or whose sponsor has signed) the Partnership Project Agreement

Organizational Partners will meet as approriate and make decisions by consensus.

Market Representation Partners (1)



Market Representation Partners (2)

Standardization should meet market needs.

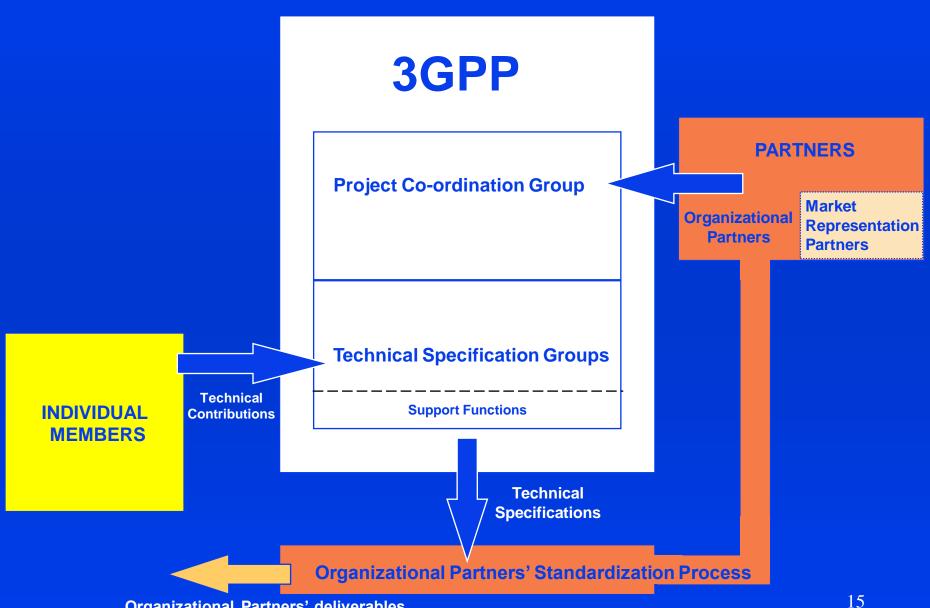
In order to identify market requirements, the high competence of Market Representation Partners should be used.

A Market Representation Partner is an organization invited to participate by the Organizational Partners to offer market advice to 3GPP and to bring into 3GPP a consensus view of market requirements (e.g. services, features and functionality) falling within the 3GPP scope.

A Market Representation Partner:

- does not have the capability and authority to define, publish and set standards nationally or regionally
- has signed (or whose sponsor has signed) the Partnership Project Agreement
- has committed itself to the 3GPP scope

Individual Members (1)



Individual Members (2)

Membership in an Organizational Partner is a prerequisite for Individual Membership in 3GPP.

Individual Membership is open to legal entities committed to support 3GPP and to:

- contribute technically or otherwise to one or more of the Technical Specification Groups within the 3GPP scope
- use the 3GPP results to the extent feasible

Individual Membership in 3GPP will be terminated by dissolution, abolition, resignation or expulsion from the related Organizational Partner.

Individual Members (3)

All entities registered as members of an Organizational Partner and eligible for participation in the technical work of that Partner, can become Individual Members of 3GPP. Individual members shall apply to their Organizational Partner to participate in 3GPP.

Individual Members act in the 3GPP in their own right; they carry the full responsibility for their contributions.

Individual Membership applicants residing in a country/area without an Organizational Partner can apply for membership in an Organizational Partner according to the rules of each Partner. (e.g. ETSI Associate Membership is available)

Observership

In order to ensure globally applicable Technical Specifications, the status of "Observer" may be granted by the Organizational Partners to an entity which has the qualifications to become a future Organizational Partner. The status of "Observer" includes obligations to:

- identify as early as possible any regulatory requirements that may lead to options within Technical Specifications
- make their IPR policy available for consideration
- contribute to the common objective of the 3GPP and avoid duplication of work related to the 3GPP

The participation rights of an Observer will be decided on a case by case basis.

Documentation for 3GPP

The following 3 documents describe 3GPP:

- The Partnership Project Agreement
- The Partnership Project Description (this present document)
- The Partnership Project Working Procedures

The Partnership Project Agreement (1)

The Partnership Project Agreement is a concise legal document signed by participating Partners (or their sponsor).

It contains the minimum legal text necessary for 3GPP to function correctly.

The Partnership Project Agreement refers to the Partnership Project Description and the Partnership Project Working Procedures.

The Partnership Project Agreement (2)

The Partnership Project Agreement includes obligations on Organizational Partners to commit themselves to the 3GPP scope:

- to encourage their members to contribute to the common set of Technical Specifications and to avoid duplication of work
- to convert / transpose / adopt all relevant Technical Specifications resulting from 3GPP into their own relevant deliverables through their normal processes
- to identify as early as possible, any national / regional regulatory requirements that may lead to options within the Technical Specifications
- to make their IPR Policy available for consideration

The Partnership Project Agreement (3)

The Partnership Project Agreement includes obligations on Market Representation Partners to identify market and service requirement of 3GPP and to contribute to:

- the promotion of 3GPP
- the definition of 3GPP System and Service scenarios

The Market Representation Partners should also encourage their members to contribute to the common objectives of 3GPP and to avoid duplication of work.

Ownership of the Partnership Project results

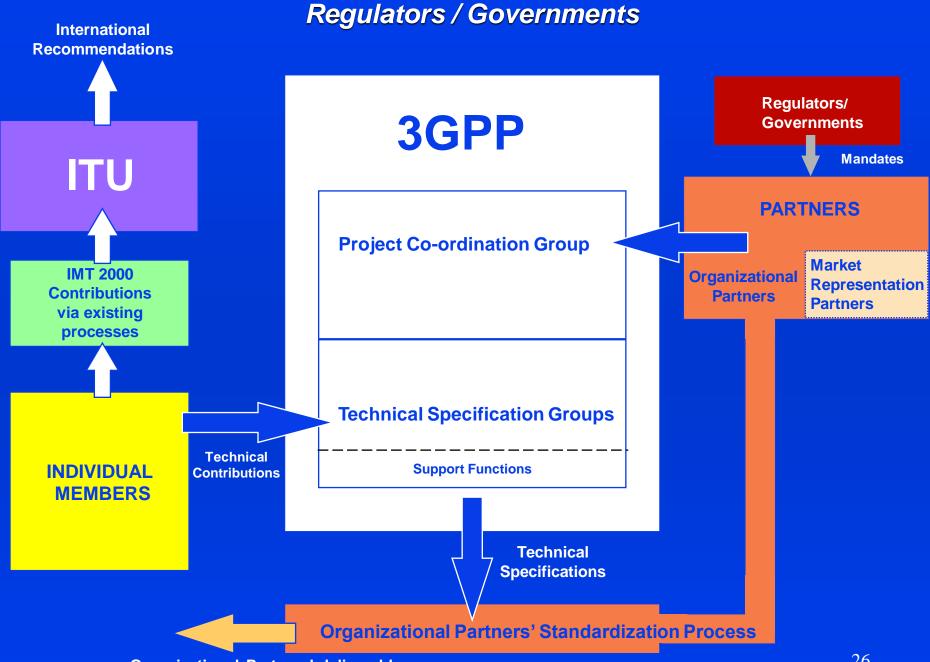
The Organizational Partners of 3GPP will have joint ownership (including copyright) of the Technical Specifications.

Contributions to ITU International Recommendations 3GPP **PARTNERS Project Co-ordination Group** Market **IMT 2000 Organizational** Representation **Contributions Partners Partners** via existing processes **Technical Specification Groups Technical INDIVIDUAL Support Functions** Contributions **MEMBERS Technical Specifications Organizational Partners' Standardization Process**

Submission of 3GPP results to ITU

3GPP will not contribute directly to the ITU.

Formal contributions to ITU Study Groups are made by ITU members following existing national/regional processes.



National / regional regulatory requirements

Variations imposed by national / regional regulatory requirements will be included in the Technical Specifications as defined by the Technical Specification Groups.

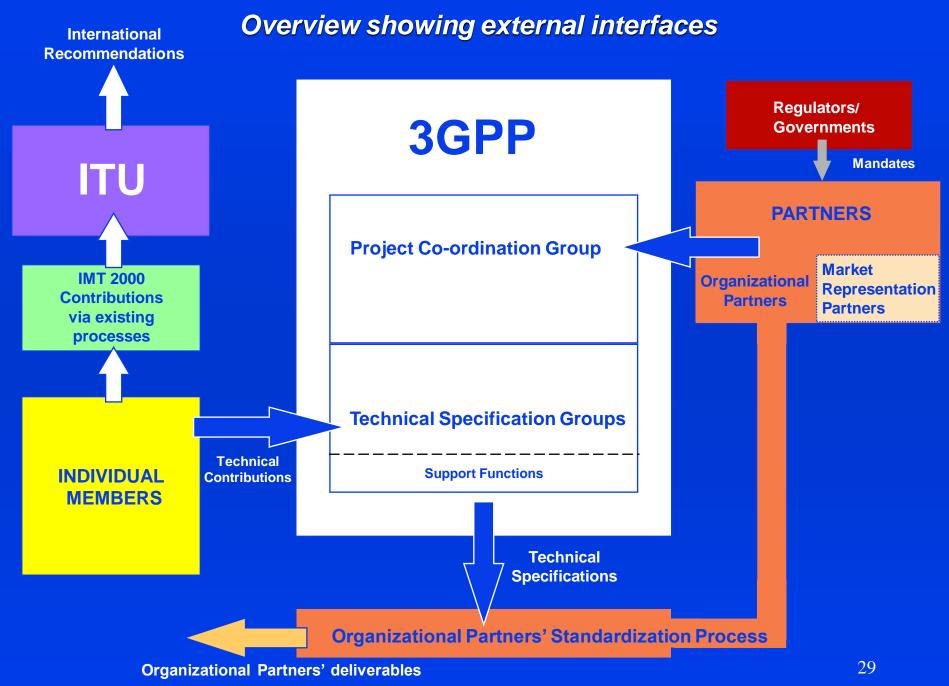
Resource requirements for establishing 3GPP

ETSI will absorb the initial cost of establishing the 3GPP, if required.

Thereafter, the costs will be shared by the Organizational Partners. There will be no direct 3GPP membership fee for Individual Members.

Partners and Individual Members may provide support functions to the extent that they are able (eg hosting of meetings and provision of Secretariat support).

The longer term financial requirements are for further study.

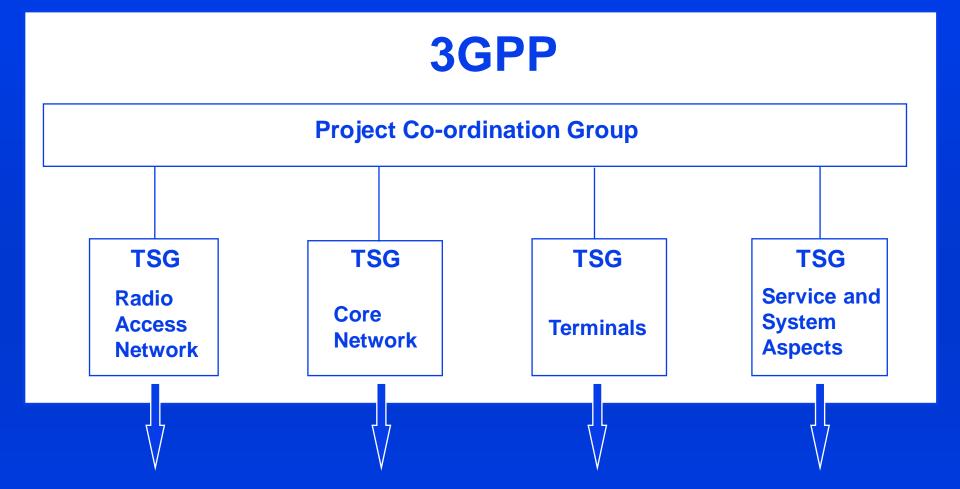


Internal structure of 3GPP (1)

3GPP consists of a Project Co-ordination Group (PCG) and Technical Specification Groups (TSGs).

To assist in the co-ordination of the technical activities, the TSGs are encouraged to meet at the same time and place, as and when appropriate (e.g. twice per year).

Internal structure of 3GPP (2)



Technical Specifications

Work areas to be covered by the Radio Access Network TSG

- Radio Layer 1 specification
- Radio Layer 2 specification
- Radio Layer 3 RR specification
- lub specification
- lur Interface
- lu Interface
- UTRAN O&M requirements
- Base station radio performance specification
- Conformance test specification for testing of radio aspects of base stations
- Specifications for radio performance aspects from the system point of view

Work areas to be covered by the Core Network TSG

- Mobility management, call connection control signalling between the user equipment and the core network
- Core network signalling between the core network nodes. the signalling supports functionality such as user location information, subscription information and control of network services
- Definition of interworking functions between the core network and external networks
- Packet related questions such as mapping of QoS (e.g. transparency for IP domain applications, general for bearer types, special for optimized applications such as Voice over IP)
- Core network aspects of the lu interface
- Core network O&M requiremnents

Work areas to be covered by the Terminal TSG

- Service capability protocols
- Messaging
- Services end-to-end interworking
- USIM to Mobile Terminal interface
- Model/framework for terminal interfaces and services (application) execution
- Conformance test specifications of terminals, including radio aspects

Work areas to be covered by the Service and System Aspects TSG

Service capabilities

- Definition of services and feature requirements
- Development of service capabilities and a service architecture for cellular, fixed (and cordless) applications
- Stage one and two descriptions for:
 - Charging and accounting
 - Network Management
 - Security Aspects

Architecture

- Definition, evolution, and maintenance of overall architecture, including assignment of functions to particular sub-systems and identification of key information flows
- In co-operation with other TSGs, define required services, service capabilities and bearer capabilities offered by the different sub-systems
- Codec aspects
 - Principles for definition of end-to-end transmission
 - Definition, evolution and maintenance of relevant specifications
- Project co-ordination
 - High level co-ordination of the work performed in other TSGs and monitoring of progress

Primary responsibilities of PCG and TSGs (1)

The primary responsibilities of PCG, TSGs and Organizational Partners are given in the following tables:

	Function	Org Partners collectively	PCG	TSGs
1	Approval of new Partners for 3GPP	X		
2	Approval of Organizational Partner funding requirements and contributions	X		
3	Allocation of human and financial resources provided by Partners to PCG	X		
4	Allocation of resources to TSGs		X	
5	Allocation of resources within TSGs			X

Primary responsibilities of PCG and TSGs (2)

	Function	Org Partners collectively	PCG	TSGs
6	Allocation of voluntary human and financial resources by Market Representation Partners and Individual Members		X	X
7	Handling of appeals from Individual Members on procedural matters	2 nd step	1 st step	
8	Handling of appeals from Individual Members on technical matters		2 nd step	1 st step
9	Determine overall time frame and manage overall work progress		X	

Primary responsibilities of PCG and TSGs (3)

	Function	Org Partner collectively	PCG	TSGs
10	Detailed time frame and manage detailed work progress			X
11	Approval of Technical Specifications			X
12	Proposal and approval of work items within the agreed scope and terms of reference			X
13	Final adoption of work items within the agreed scope and terms of reference		X	
14	Management of work items			X

Primary responsibilities of PCG and TSGs (4)

	Function	Org Partners collectively	PCG	TSGs
15	Technical Co-ordination (System Aspects TSG will play a role here)			X
16	Appointment of Org Partners meeting Chairman (provided by host on a rotational basis)	X		
17	Appointment of PCG Chairman (for one year term)		X	
18	Election of TSG Chairman and Vice Chairmen			X
19	Creation of TSGs and approval of their terms of reference	X		

Primary responsibilities of PCG and TSGs (5)

	Function	Org Partners collectively	PCG	TSGs
20	Creation of TSG working groups and approval of their terms of reference			X
21	Election of TSG Working Group Chairmen and Vice Chairmen			X
22	Confirmation of individual member participation rights	X		
23	Approval of 3GPP scope and terms of reference	X		
24	Maintain Partnership Project Agreement, Project Description and Working Procedures (consensus agreement by all Partners)	X		

Participation rights in PCG and TSGs

The following have a right to participate in the PCG:

- Representatives of participating Organizational Partners
- Representatives of participating Market Representation Partners
- Chairman and Vice Chairmen of the TSGs, as ex-officio members

The following have a right to participate in the TSGs:

- Representatives of members of participating Organizational Partners (i.e. Individual Members)
- Representatives of participating Organizational and Market Representation Partners

Principles for decision making within 3GPP

Decision making within PCGs

- By consensus amongst the Organizational Partners
- By vote amongst the Organizational Partners in unavoidable cases

Decision making within TSGs

- By consensus amongst the Individual Members
- By vote amongst the Individual Members in unavoidable cases

The Organizational Partners will conduct a fairness review of the decision making process six months after 3GPP start-up, taking into account all concerns raised

(Note: voting will not be permitted on National/Regional regulatory requirements)

Principles for voting within TSGs

The following principles will be applied for voting within the TSGs

- One "Individual company Member", one vote
- Organizational Partners to interpret "Individual company Member" according to its own rules of membership
- The PCG will maintain a register of eligible voters for the TSGs
- Each Individual Member may carry the proxy for up to five other Individual Members

Working language for 3GPP

The working language for 3GPP shall be English

- Meetings of the PCG and TSGs shall be conducted in English
- 3GPP Technical Specifications shall be prepared in English

Relationship with other groups

3GPP will establish and maintain good relationships with groups working on standards for other IMT-2000 family members.

Intellectual Property Rights (IPR) Principles (1)

The Individual Members of 3GPP are bound by the IPR Policies of their respective Organizational Partner.

Individual Members are encouraged to declare at the earliest opportunity, any IPRs which they may have and believe to be essential, or potentially essential, to any work ongoing within 3GPP.

After comparing their respective IPR policies, ARIB, ETSI, T1, TTA and TTC have agreed that their IPR policies share common principles are quite similar and have agreed on the following additional principles to maximize the success of 3GPP.

Intellectual Property Rights (IPR) Principles (2)

- (i) To encourage their respective members' declaration of willingness to grant licences on fair, reasonable terms and conditions on a non-discriminatory basis, and consistent with the respective Organizational Partners' IPR policies.
- (ii) To encourage their respective members who may have IPR which they believe to be essential, or potentially essential, and are unwilling to license such IPR, that early indication of such unwillingness be provided to their respective Organizational Partners.
- (iii) To understand that essential IPRs mean essential IPRs relative to any or all parts of the content of the 3GPP technical specifications.
- (iv) A mechanism for exchanging information associated with the patent statement among the Organizational Partners will be introduced so that such information may be used when adopting relevant standards in each Partner Organization.