3GPP2 Work Item Number:	**3GPP2-00299**
TSG Work Item Number (if applicable)	
TSG Submission Date:	
PMT Submission Date:	2011/09/26
Work Item Status:	Approved

Work Item Title:	Self-Organizing Networks
Abbreviation:	SON

Abbreviated Work Item Description:

Work is needed to improve the ability of network elements to automatically communicate information between themselves that allows each element to configure itself relative to the other elements in the network.

Detailed Work Item Description:

Self-Organizing Networks have the ability to communicate automatically between the elements of the network regarding configuration and operational information. This saves the time and minimizes the possibility of errors that are characteristics of human-based procedures.

This work includes both intra-CDMA and inter-RAT (Radio Access Technologies) SON communications. This work is intended to be developed as an optional capability with respect to legacy networks with minimal impact on deployed networks.

Though the following is not an exclusive list, some areas that need to be considered for improvement are:

- Creation and updating of neighbor lists at the RAN (e.g., in support of energy saving mode).
- Communication of loading information to promote load balancing (e.g., between eHRPD and E-UTRAN).
- Communication of detected interference levels to allow cells, including femtocells and macrocells, to notify other entities when they detect interference levels above or below various thresholds.

Contributions Under Discussion with Respect to this Work Item:

Contribution Number	Title

Dependent and Related Work Items, if applicable:
<Please enter the list of dependent or related work items in **one** of the following tables.>

1. This new work item depends upon the following active work items in order to be considered complete:

Work Item Number	Work Item Name

2. This new work item must be complete before the following active work items can be considered complete:

Work Item Number	Work Item Name

3. This new work item is not dependent, but is related to the following active or completed work items:

Work Item Number	Work Item Name	Explanation
00285	Dynamic RAN Power Management	Dynamic RAN Power Management is an aspect of SON.

Supporting Companies:
At least three companies must indicate support for the feature. Support involves the commitment of resources to achieve completion of the feature/work.

Company Name	**Contact** (Name, phone, email)
1. Alcatel-Lucent	Mike Dolan, Mike.Dolan@Alcatel-Lucent.com , +1.630.979.1033,
2. ZTE	Yuanfang Yu, Yu.Yuanfang@zte.com.cn
3. US Cellular	Sebastian Thalanany, Sebastian.Thalanany@uscellular.com
4. China Telecom	Yuezhen Wang WangYzh@gsta.com +86-20-38639255 Caiqin Zhu ZhuCq@ctbri.com.cn +86-10-58502168
5. Nokia Siemens Networks	Scott Marin, Scott.Marin@nsn.com

TSG Support:
A sponsoring company representative in each affected TSG or Work Area (e.g., OAM&P, Security) must be named as the contact for developing this feature.

TSG/WA	**Feature/Work Contact**
TSG-A	Mike Dolan, Mike.Dolan@Alcatel-Lucent.com, +1.630.979.1033,
TSG-C	
TSG-S	Mike Dolan, Mike.Dolan@Alcatel-Lucent.com, +1.630.979.1033,
TSG-X	
OAM&P	Mike Dolan, Mike.Dolan@Alcatel-Lucent.com, +1.630.979.1033,
Security	

Sponsors must indicate whether a Stage 1 document or a System Requirements document will be produced. "Not applicable" may also be used if appropriate.	Stage 1	
	System Requirements	X
	Not Applicable	

Impacts:
Identify all affected interfaces and functionality for each TSG/area of review.

TSG	Interfaces/Functions	Anticipated Impact(s)
A	TBD	Added functionality
C	TBD	Possible impacts
S	**Requirements**	System Requirements document
X	TBD	Possible impacts
OAM&P	OAM	Added functionality coordinated with 3GPP
Security	TBD	

Proposed Document Completion Schedule:
Indicate the known TSG documents affected by this work item, including:

- the TSG responsible for that document,
- all documents that will be affected by this work item in all TSGs, if known,
- the stage of work (i.e., Stage 1, 2 or 3, or "internal TSG work"), and
- the expected completion date for the document.

The completion date is the date the sponsors anticipate the specification will **start the V&V process**. It is reasonable that the document/version information may not be known, and may require decisions by an affected TSG. Such information may be provided by an affected TSG during the work item review process, or remain TBD until some future time.

TSG Impacted	**3GPP2 Document ID (including revision and version) and Document Name**	**Document Stage**	**Proposed Completion Date**
TSG-A	A.S0010-0 v1.0 cdma2000 RAN Management	2-3	09/2012
TSG-S	S.Rxxxx-0 v1.0 SON Requirements	1	06/2012
TSG-S	S.Rxxxx OAM	2-3	TBD