

Project	IEEE 802.20 Working Group on Mobile Broadband Wireless Access < http://ieee802.org/20/ >	
Title	Summary of 802.20 Proposals and Relationships Between Them	
Date Submitted	2007-03-14	
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Re:	C802.20-07-27: Technology Proposals in 802.20	
Abstract	This contribution presents an analysis of the full and partial proposals submitted to the March 2007 802.20 meeting, and their relationships. A plan for moving 802.20 forward is also presented.	
Purpose	For consideration of 802.20 in its efforts to incorporate inputs from the presenters responding the 802.20 call for additional proposals.	
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Patent Policy	The contributor is familiar with IEEE patent policy, as outlined in Section 6.3 of the IEEE-SA Standards Board Operations Manual < http://standards.ieee.org/guides/opman/sect6.html#6.3 > and in <i>Understanding Patent Issues During IEEE Standards Development</i> < http://standards.ieee.org/board/pat/guide.html >.	

Summary of 802.20 proposals and relationships between them

Jim Tomcik

C802.20-07-27

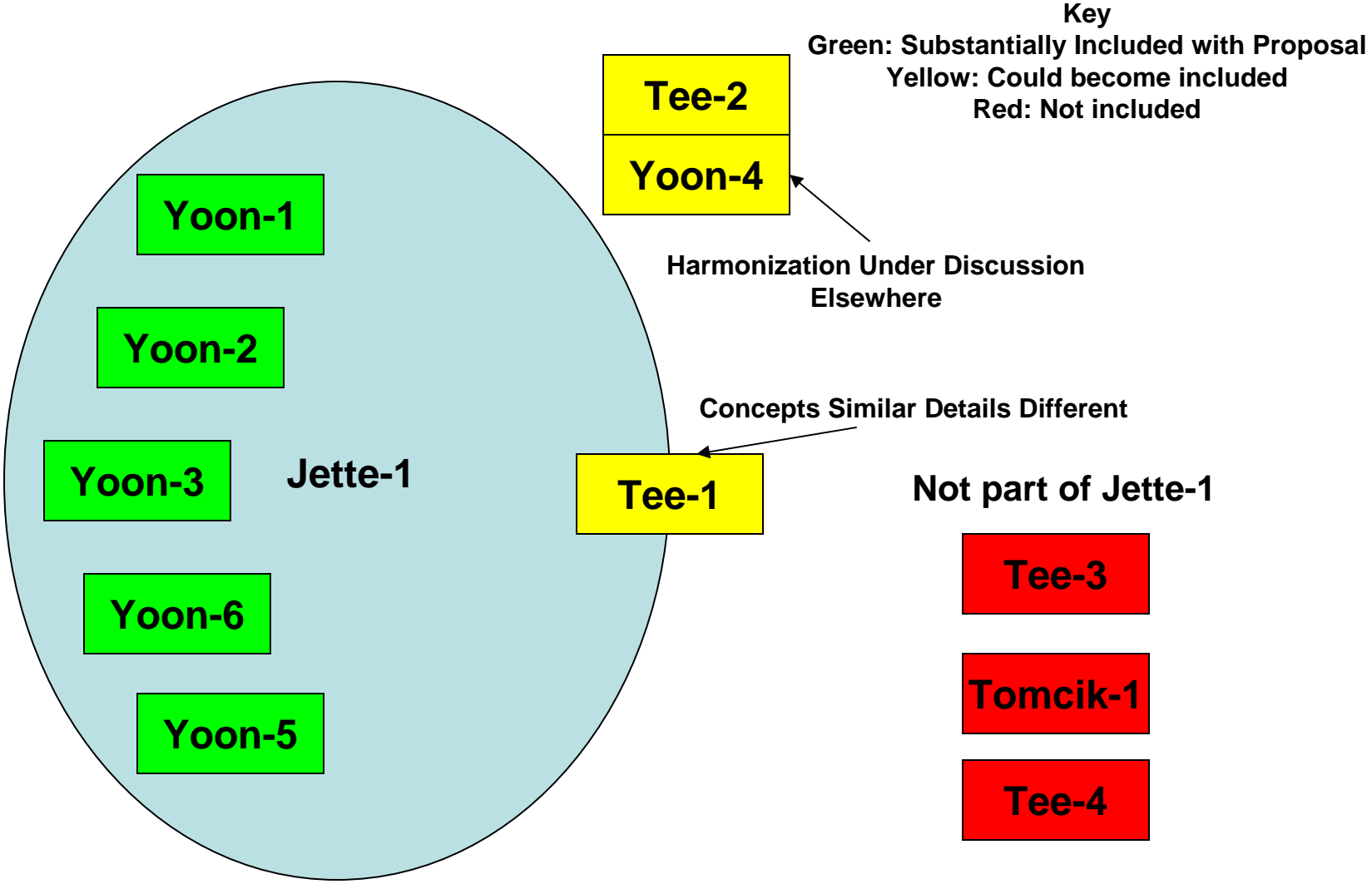
March 14, 2007

Proposals Received

- **Complete Proposal**
- Jette-1: Harmonization with UMBFDD
- **Partial Proposals**
- Tee-1: 07-19 Channel Multiplexing
- Tee-2: 07-16 (and 3 others contributions) LDPC Codes
- Tee-3: 07-18 Flexible Quasi Guard Subcarriers
- Tee-4: 07-20 IRA Codes for Short Blocks
- Yoon-1: 07-23 Silence Interval Offsets
- Yoon-2: 07-23 SSACH – (Also known as PDCAM?)
- Yoon-3: 07-23 SSCHACKCH
- Yoon-4: 07-23 Flexible LDPC Code
- Yoon-5: 07-23 MIMO
- Yoon-6: 07-23 Interlace Switching
- Tomcik-1: 07-21 RF Performance Parameters

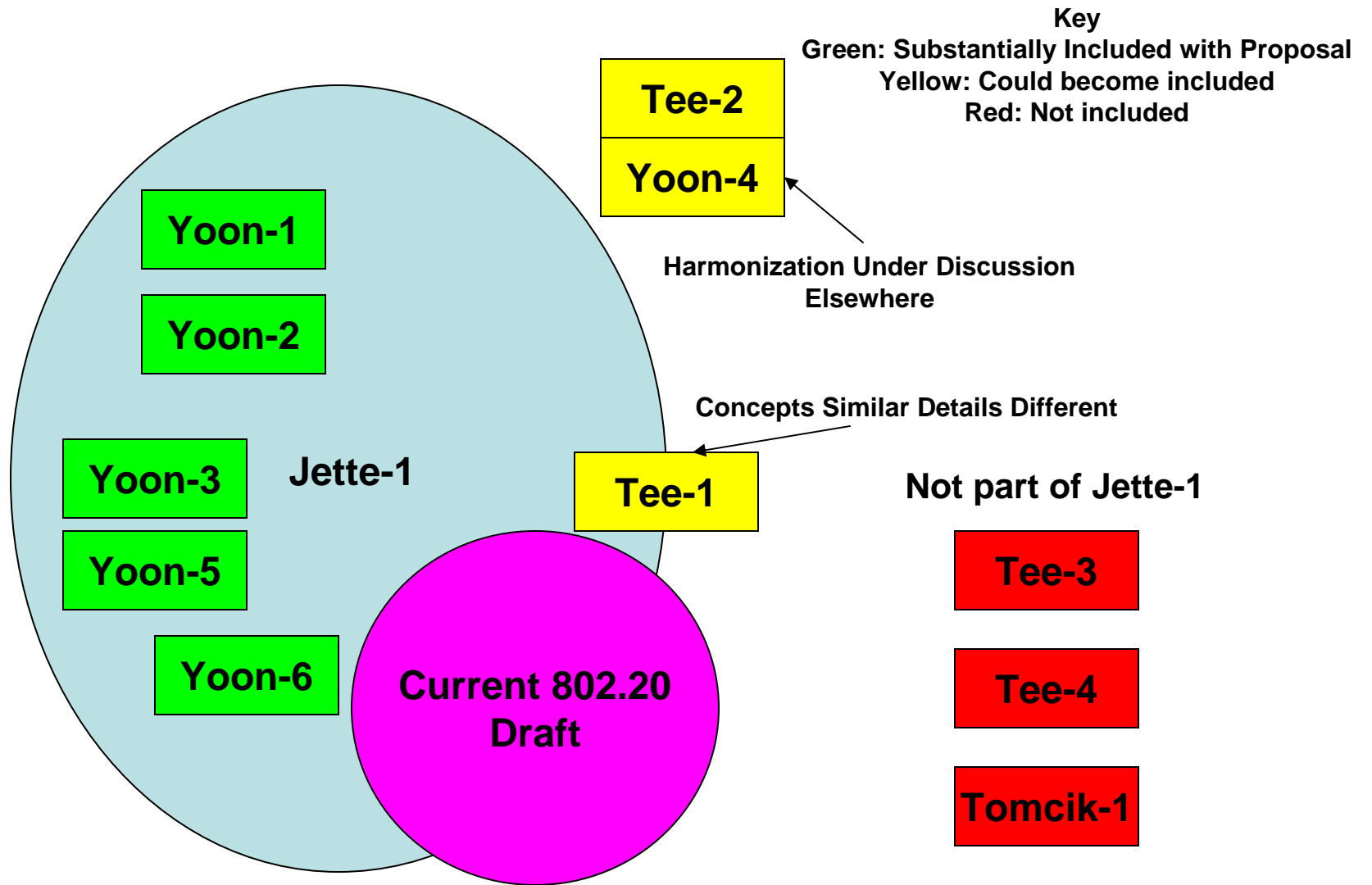
Relationships between Proposals

Note: No Scale Implied – Only Relationships



Relationships to the Draft

Note: No Scale Implied – Only Relationships



Suggested plan for 802.20 Proposals

- **Harmonize 802.20 FDD with Jette-1**
 - Substantially Satisfies Yoon-1, Yoon-2, Yoon-3, Yoon-5, Yoon-6
- **Accept Tee-1 with details as specified in Jette-1**
 - Satisfies Tee-1 functionality
- **Defer Tee-2 and Yoon-4**
 - Until LDPC Harmonization Completes, then harmonize result in ballot
- **Accept Tomcik-1 (!!)**
- **Tee-4 not included currently**
 - To be addressed in Letter Ballot Comments
 - No rate-compatible design provided.
 - No performance results on fading channels
- **Harmonize 802.20 TDD Wideband Mode as needed**

What about TEE-3???

- The flexibility proposed in TEE-3 could also be considered included without additional work!
 - Why this is so...
 - “Multicarrier mode” does not apply to Jette-1, but...
 - There is “multicarrier operation” in Jette-1
 - If the service provider transmits each carrier at an appropriate center frequency and configures it with different number of guard subcarriers, then
 - Service provider can achieve a flexible carrier spacing and guard subcarrier flexibility
- Tee-3 is satisfied in spirit!

Proposed final status of the Draft

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