# Study on Differences between Microsoft Skype for Business and Microsoft Skype Broadcast

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## Abstract
The paper proposes to clearly elaborate the differences and understanding of Microsoft Skype for business and Microsoft Skype Broadcast as known Skype for Business is a Unified communication Platform (Formerly Known as Lync) for audio & Video Conferencing, IM and Image and File Transfer capabilities which is a successful platform in the Market whereas Skype Broadcast is a portal for Online schedule of Meeting Broadcast and audio & Video Conferencing on Microsoft Portal.

## Keywords
Skype, Unified Communication, Video Conferencing

## I. Introduction
Unified Communication has the potential to dramatically change and improve the  Enterprise Communication or Business Communication in real world by reducing the overall enterprise cost & improving the scalability of Revenue Generation.The IP based Unified Communication helps communication to be far more Reliable and easy for Better Business Opportunities and Needs across the Globe , however this brings some risks and array of new vulnerabilities into the enterprise, exploited by a growing number of malicious attacks and some challenges in the adoption and scalable operation of these Technologies. Skype for business in reality is a very useful Platform for overall voice and video Conferencing solution however it has certain limitations with one being the collaboration of only 250 Participants is possible on Skype for business to that of Skype Broadcast having a large and wider Collaboration of Up to 10000 participants.  There are other differences which shall be highlighted in the paper and some technological differences in both Skype for Business and Skype Broadcast.

## II. Microsoft Skype for Business
Microsoft Skype for Business is a Collaboration Platform by Microsoft which involves a skype for Business on Premises server or Hybrid or Skype for Business Online (Available with office 365) solution. The skype for business was formerly known as Lync the latest skype for Business involves both the features of Lync and Customer software Skype for better user GUI (Graphical User Interface) and understandability. In 2017 however the formal announcement by Microsoft said that Microsoft Teams would replace skype for Business eventually.
Skype for Business came into existence in 2015 eventually Microsoft announced that Lync would be replaced by Skype for Business in 2015, which would combine features of Lync and the consumer Skype software. In April 2015, Microsoft officially launched Skype for Business. On 22 September 2015, Skype for Business 2016 was released alongside Office 2016.

## III. Microsoft Skype Meeting Broadcast
Microsoft Skype Meeting Broadcast is a feature of Office 365 and Skype for Business Online it helps setup, schedule and Broadcast Live Meetings or events the Skype Broadcast is accessible online and meetings can be scheduled online the main advantage of Skype Broadcast Online is the Meetings can be setup anywhere across the Globe with simple and relatively easy licensing available by Microsoft under Different Plan categories with Live Broadcast participants Ratio up to 10,000 participants.

## IV. Difference between Skype for Business and Skype Meeting Broadcast
Skype for Business only provides the ability up to 250 participants to collaborate Online by using Different features such as IM,Content sharing, Video, audio the meetings can be easily setup by the Outlook Office 365 Skype Client or by OWA.
Skype Meeting Broadcast is a feature for Skype for Business Online and Office 365 which helps to schedule, produce and Broadcast LIVE meetings for up to 10,000 Participants. The meetings can be scheduled from the skype online broadcast portal before scheduling any meeting the Licensing must be enabled for the organization.
The Process of Obtaining Licensing for both Skype for Business and Skype Meeting Broadcast is available on Microsoft Portal.

## V. Skype Protocol
The Skype Protocol is a self-proprietary protocol which is used by skype it is an IP telephony Peer to Peer architecture Based protocol though the protocol is licensed by Microsoft for Skype Products and is not Interoperable with other VOIP protocols however Microsoft gives timely updates to make the product and protocols depended to be user friendly and free from any vulnerabilities. Microsoft Notification Protocol (MSNP) used by skype has various version history time to time from Microsoft starting from MSNP 1 to MSNP 24.
The signaling in this protocol is usually encrypted using RC 4 a technique used for key based audio encryption with AES (Advanced Encryption Standard) parts of the Skype client use open source socket communication with closed source reverse engineering techniques. The RC4 encryption algorithm is used as obfuscate the payload with various digital encryption techniques for key Generation and encryption to authentication.

### A. Features of Skype for Business
• Instant Messaging and Chat History
• Emoticons and Formatting
• Skype Calls Outgoing & Incoming Skype to Skype , Skype to PSTN (Public Switched Telephone Network) and PSTN (Public Switched Telephone Network) to skype with DID (Direct Inward Dialing) number allocation.
• Skype to Toll Free Number calling
• Emergency Numbers (Like 911)
• Caller ID to outgoing Calls on PSTN
• Voice Mail
• Video calling and Screen Sharing
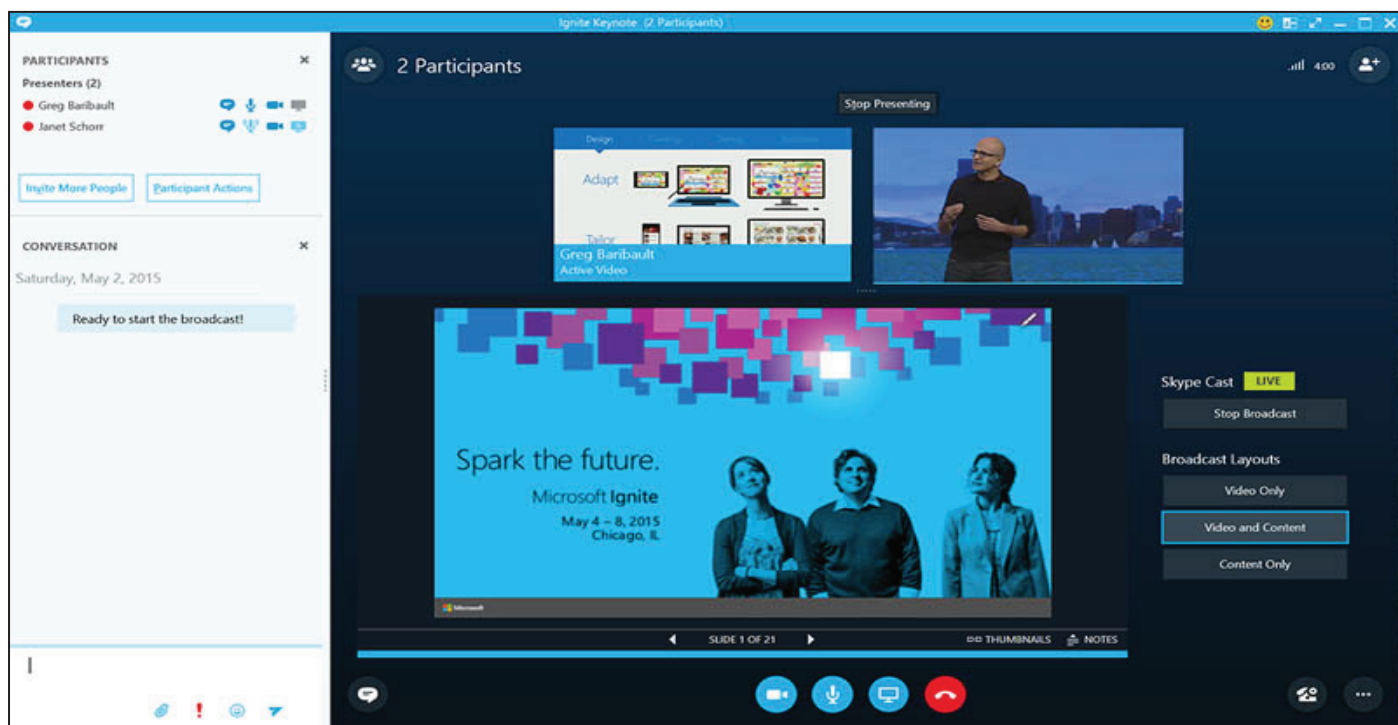• Text Messaging

### B. Features of Skype Meeting Broadcast
• LIVE MEETING
• Live Video Recording

- Video On Demand after Meeting
- Addition of user comments on Microsoft pulse and Yammer & Yammer feed and questions and answer section available at setup of Broadcast.
- Meeting Participant report with Call statistics of Live Event
- Easy integration with Hive streaming
- Skype Broadcast portal for schedule of Online Skype Meetings

1.　https://portal.broadcast.skype.com

## A. Typical Skype Broadcast Screen



## B. Typical Skype for Business Client Screen

## References

[1] Online Available: https://support.office.com/en-us/article/what-is-a-skype-meeting-broadcast-c472c76b-21f1-4e4b-ab58-329a6c33757d

[2] Online Available: https://blogs.office.com/wp-content/uploads/2015/03/Skype-for-Business-Get-Ready-1.png

[3] Online Available: https://en.wikipedia.org/wiki/Skype_for_Business

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