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B D , IBM D  
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T P : 30 C

C	1:		B		? C		A
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C	2.1:	A			S		
C	3:	S		H	L		V1
C	4:	B					
C	5:	A		U	E		
C	6:	B	S		U	E	
C	7:	S	S		U	E	
C	8:	S	S		U	E	
C	9:	P	S		U	E	
C	10:	F	C		S		U E
C	11:	C		D			
C	12:	E		A		D	

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Role: Manages and monitors the Blockchain network. Each business in the network has a Blockchain Network operator.

Note, since hyperledger composer now only supports hyperledger fabric V1 and higher, no support will be included in this tutorial for versions of hyperledger fabric lower than V1.0

Network Profile Management	
API	Parameters
create Profile	profile object
delete profile	profile name
get all connection profiles	(none)
get a specific network connection profile	profile name
Business Network Management	
API	Parameters
deploy a network	network archive file, options
install new a network	network archive file, options
start an installed network	network name, options
list the deployed business networks	(none)
touch a network, check compatibility	business network name
take a business network off line	business network name
update an existing business network	business network name, archive file
Resource Management	
API	Parameters
list members of a registry	Buyer
List Assets in the registry	(none)
Add Member	Go Name, id, Type
Remove Member	Buyer
getMemberSecret	Buyer



# S

- - / C . S :
- **buildAndDeploy** /
- **create\_composer\_docs.sh** C D
- **shutdown.sh** .
- A - N JS SDK
- C D .
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## HyperLedger Composer has gone through two significant changes in 4Q2017.

- The first, Version 0.14, changed how security worked and clarified the difference between the business network administrator (admin) and the fabric Administrator (PeerAdmin). While this had little effect on what the Admin user interface could do, it did change significantly how the underlying code worked in the hlcAdmin.js file and in the autoLoad.js file. The biggest code change is that the autoLoad process started issuing Identities instead of just adding members to the registry. The other significant change required adding two statements to the permissions.acl file.
- Then Version 0.15 was released and the entire access structure was changed from connection profile + username/password (which is why we had the getSecret() method) to idCards. This necessitated changes in some of the scripts we use (buildAndDeploy, startup.sh, deployNetwork.sh), required a complete rewrite for how the test code loads and connects to the network and also required changes in the admin interface. You'll see a number of items which have a ~~yellow~~ strikethrough~~--~~, indicating that they are no longer available.
- We aren't using connection profiles any more as part of the log in process, so that whole section is no longer useful. Because we're using cards, we don't need to use, nor do we need to capture, the user secrets associated with each Member. so that is deactivated.



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**We do, however, need more capability for Members.** Along with the Add Member function, which we've had all along, we now need the ability to issue an Identity for that Member and then to create an idCard for that member. You'll see those new functions in the Resource Management part of the administrative user interface, along with a feature which will check to see if an idCard already exists for a specific member.

An Identity can only be issued for an existing Member, so the process is to:

- Add a Member
- Issue an Identity
- Create an idCard

Creating an idCard requires the password, or secret, which was generated during the issue Identity process. Each of these functions has been implemented individually.

It would be a great idea to combine the issue Identity process with the Create idCard process, so that you don't have to remember to copy the generated secret and type it into the createCard page.



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C	5:	A		U	E		
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C	7:	S	S		U	E	
C	8:	S	S		U	E	
C	9:	P	S		U	E	
C	10:	F	C		S		U E
C	11:	C		D			
C	12:	E		A		D	

# C 6: B S U E

L B & B

B D , IBM D  
D S , S C E A , CTO G T S  
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